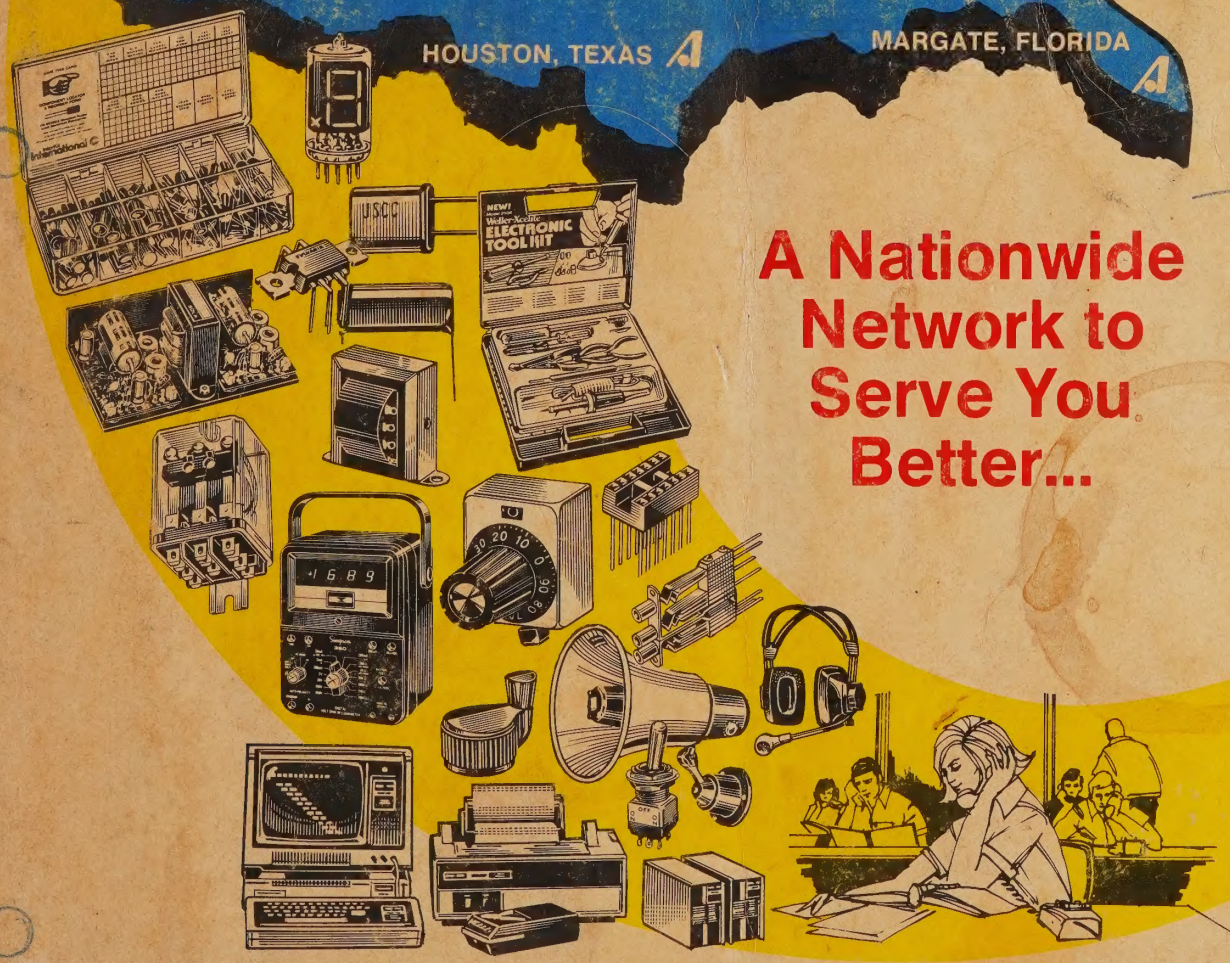
PRICE $1.00

ALLIED ELECTRONICS



A Nationwide Network to Serve You Better...



1979 ENGINEERING MANUAL & PURCHASING GUIDE No. 790

THUMB INDEX

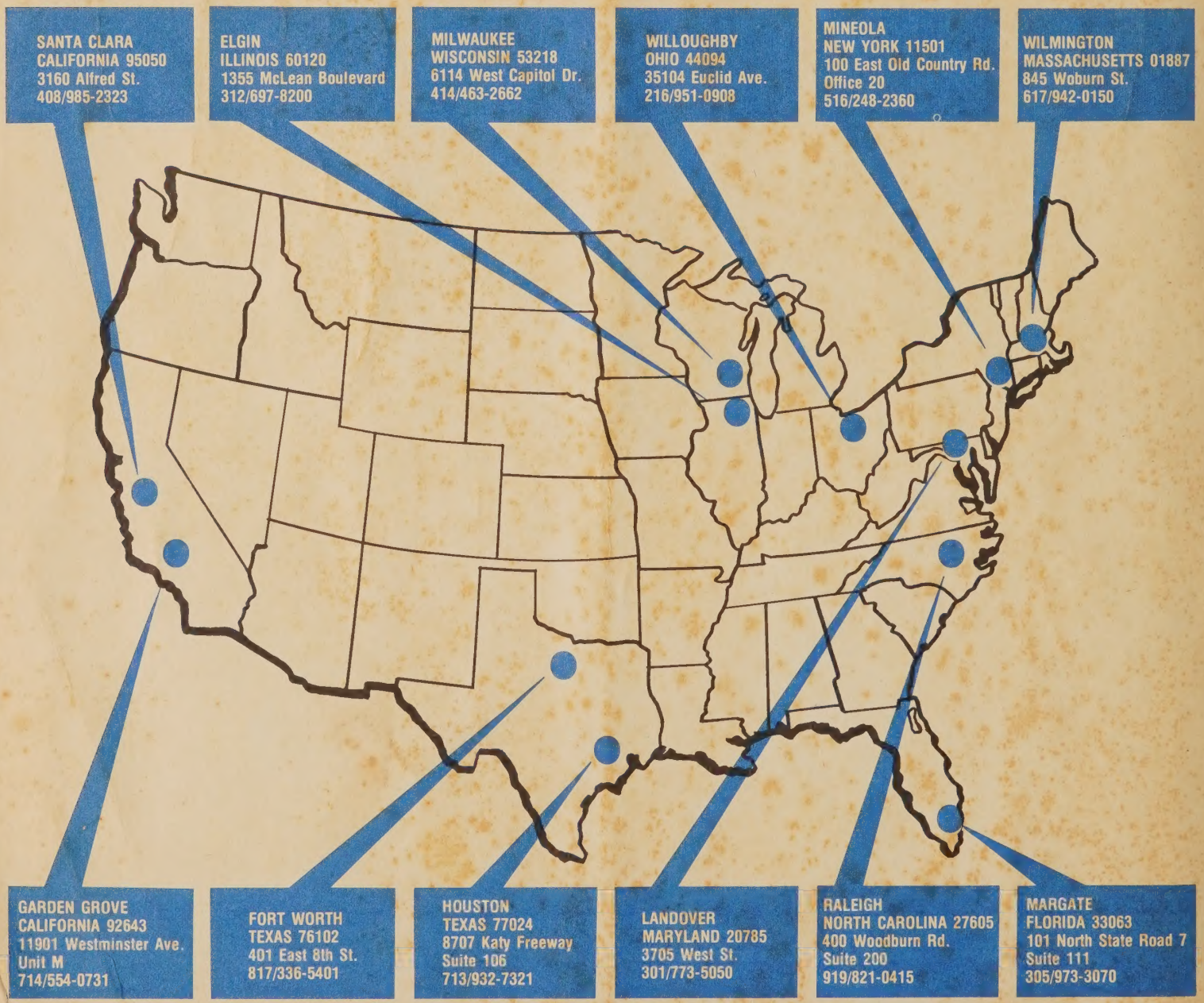
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ALLIED ELECTRONICS

AE DIVISION, INC.

OFFICE OF THE VICE-PRESIDENT August, 1978

Dear Customer:

Thank you for using Allied Electronics' Engineering Manual and Purchasing Guide as your reference and source for electronic parts and supplies. Allied, for more than half a century, has been and will continue to be one of the leaders in Electronic Component Distribution. We certainly appreciate the confidence you have bestowed upon us and we will continue to look forward to serving you and supplying your industrial electronic needs.

We have tailored our Purchasing Guide around the industry and vendors most-called-out items. We further recognize that most of your requisitions are for manufacturers' part numbers. Therefore, our staff is well trained in identifying these part numbers and our inventories are structured to give you off-the-shelf delivery from our nearest stocking location. Give us the opportunity to show you what we can do—we feel our shipment from stock performance is the best in the industry.

We understand that you may have needs for other electronic component items not listed in our Guide. As a result, we stock a complete library of literature available for your use. The Manufacturers' Index in the back of this Guide shows the many different manufacturer product lines that are carried. One call to your nearest Allied facility is all it takes when you want specific product information.

Since our recent acquisition and purchase by Spartan Manufacturing Corp. of St. Louis, Missouri, Allied has begun several aggressive programs to expand our services and reaction time. Allied's inside telephone operation at any location is structured to respond to your immediate requirements. A nationwide computerized order entry system plus instantaneous inventory access allows a tremendous improvement in fulfilling your wants. Six new sales offices have currently emerged—each tailored to better serve its respective area.

Don't forget, Allied also offers basic services like Pack and Hold, Ship Complete, Export, Drop Ship, Bids and Quotations, Scheduled Deliveries. Ask your Sales Representative about these services, and how they may help you.

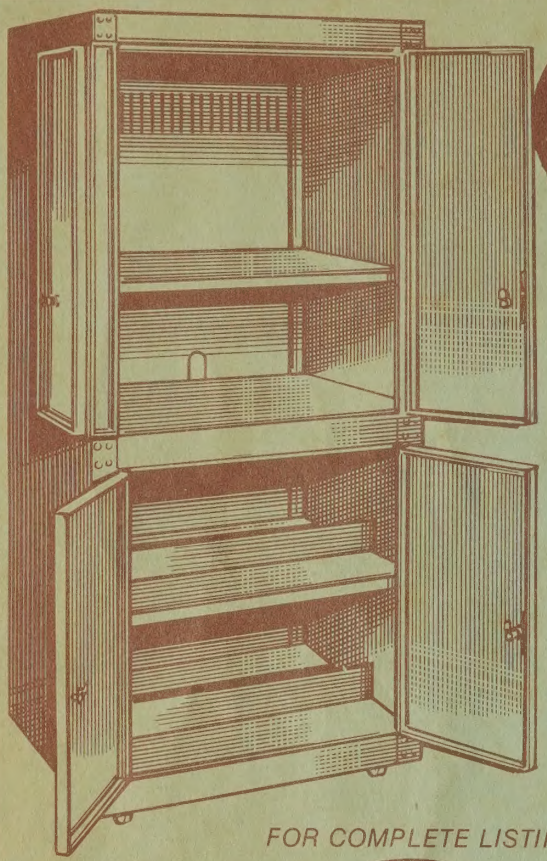
Even with modern, sophisticated communications, Allied is still a "People Place". You can always rely on Allied's team for dependable on-time services. Knowing the inside and outside of electronics distribution helps us provide you with the services you deserve.

Cordially,

David A. Yaniko

David A. Yaniko
Vice President

P.S. Additional copies of this Guide are available for your co-workers or associates. Have them request their copy on company or business letterhead. Write the Allied facility nearest you.



NEW! BUD

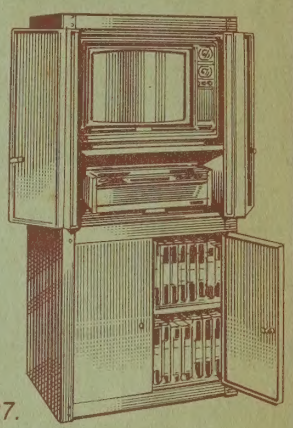
AVS-500

Designed To House Audio Visual Systems For Training And Orientation Programs, Sales/ Marketing Seminars, And Point Of Purchase Displays.

This compact, easily movable unit provides a convenient, one-station VTR center for a range of AV applications. The AVS-500 can effectively house any audio-visual system. Front doors bi-fold to a 270 degree opening, consequently maximum viewing area is afforded when a VTR system is in operation. The shelves in the upper section are reinforced to support the heavy equipment.

Design Features: Upper section houses video tape recording equipment. Top shelf holds television monitor; clear inside dimensions, 18½x25½x22". Louvered rear panel is notched for power cable entry. Lower section provides deep, two-shelf storage for video tape cassettes. Shelf dividers are set at 7 7/16" depth. Space behind dividers can be utilized for additional storage. Sides, top, bottom, dividers and shelf assemblies are 16 gauge steel. Flush mounted cam locks on all doors assure tamper-proof storage and maximum security when the VTR system is not in use. Four heavy-duty casters and hardware included. Assembled. Finish, tawny brown enamel; doors, textured sand finish. Weight: 255 lbs.

736Q9700 ..... **Each 450.00**

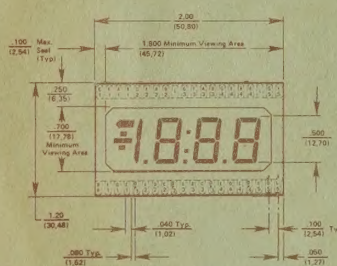


FOR COMPLETE LISTING OF BUD PRODUCTS, SEE PAGES 217-223, 227.

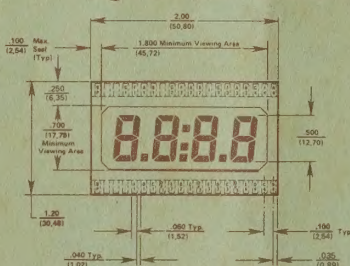
NEW! AND

Liquid Crystal Displays

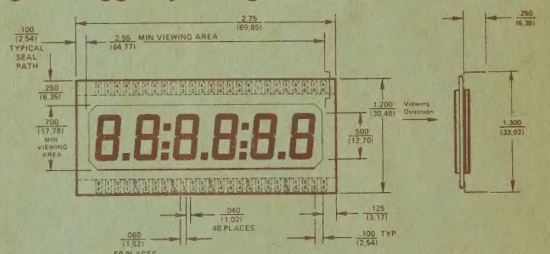
Wide Viewing Angle And High Contrast Ratio Allows Easy Readability
Big Half-Inch Character Height: Ruggedly Designed Connector Pins



MODEL FE0201



MODEL FE0202



MODEL FE0401

Features ultra-low power consumption, high contrast ratio, wide viewing angle, rapid response time, proven sealing techniques, and superior MTBF.

Basic display cells contain high-stability, moisture-insensitive LC materials and are peripherally sealed with a high quality sealant to assure mechanical integrity and long life span. These Liquid Crystal Displays can be used in a variety of applications including digital volt meters, digital panel meters, digital thermometers, and AM/FM radio readouts.

Contrast Ratio: 20:1 typical. **Operating Voltage:** 3 to 17 V_{rms}, 5 V_{rms} typical. **Operating Frequency Range:** 30 to 100Hz, 60Hz typical. **Operating Temperature Range:** −10 to +55°C. **Storage Temperature Range:** −20 to +65°C. **Viewing Angle:** +50°.

MODEL FE0201. Features 3½ digits, a colon, three decimal points, a plus/minus sign, and an over-range arrow.

505-1000. 1-9 ..... **Each 22.10**
10-24 ..... **Each 18.15**
25-Up ..... **Each 16.25**

MODEL FE0202. Features 4 digits,a colon, and 3 decimal points.

505-2000. 1-9 ..... **Each 22.10**
10-24 ..... **Each 18.15**
25-Up ..... **Each 16.25**

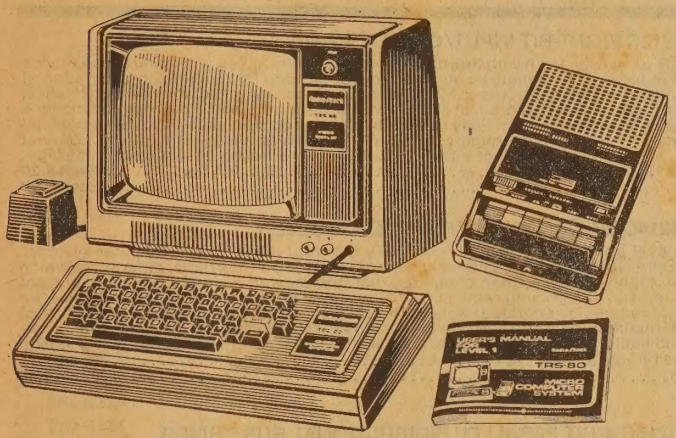
MODEL FE0401. Features 6 digits, 2 colons and 5 decimal points.

505-3000. 1-9 ..... **Each 25.50**
10-24 ..... **Each 21.55**
25-Up ..... **Each 18.65**

TRS-80™ Micro-Computer System

TRS-80™ *COMPLETE* Low-Cost Micro-Computer System

ALMOST LIMITLESS CAPABILITIES . . . FOR SMALL BUSINESS, SCIENTIFIC COMPUTATIONS, TEACHING FUNCTIONS, BOOKKEEPING, TECHNICAL SCHOOLS, "AT/HOME-HOBBYIST" ENGINEERS, DESIGNERS, PROGRAMMERS, FAMILY USE



The TRS-80™ can be used in a wide variety of applications including education, accounting, laboratory—even games at home. 100% wired and tested so you can use it immediately. Easy expansion due to modular design. All systems include a 12" video monitor, CTR-41 battery/AC cassette recorder and U.L. listed power supply for 120VAC.

TRS-80™ PRICE LIST

• Complete Systems Include Computer, Video Display, and Recorder

910-9500	Level-I BASIC with 4K RAM	Each 599.00
910-9505	Level-I BASIC with 16K RAM	Each 889.00
910-9510	Level-II BASIC with 4K RAM	Each 698.00
910-9515	Level-II BASIC with 16K RAM	Each 988.00

INDIVIDUAL COMPONENTS

910-9530	CTR-41 Recorder	Each 49.95
910-9518	Level I 4K RAM Computer Only	Each 400.00
910-9520	12" Video Display	Each 199.00
910-9540	16K RAM Memory Expansion	Each 290.00
910-9550	Level II Basic Expansion	Each 99.00

TRS-80™ SPECIFICATIONS

MICROPROCESSOR: Z80

VIDEO DISPLAY:
Memory mapped, all graphics and alphanumerics controlled by BASIC commands. Cursor control. Automatic scrolling.

Text: 16 lines of 64 characters, also software selectable to 32 characters per line.

Graphics: 128 horizontal by 48 vertical. Graphics and text can be interspersed in any manner by software.

MEMORY: 4k ROM, Level I; 12K ROM, Level II. Includes 4K dynamic RAM. Add up to 48K.

INPUT/OUTPUT: Computer-controlled 250 baud (Level I) and 500 baud (Level II) cassette interface. Expansion port for additional memory and peripherals. Built-in 53-key ASCII keyboard.

SOFTWARE Level I (4K ROM):
Floating-point BASIC in ROM.

Commands: NEW, LIST, RUN, CONTinue, REMark, LET, FOR-NEXT-STEP, GO-SUB-RETURN, STOP, END, GOTO, IF-THEN, INPUT, ON . . . GOTO, ON . . . GO-SUB, PRINT, CSAVE, CLOAD, DATA, READ, RESTORE.

Functions: SPC, SIZE, TAB, INT, ABS, RND, +, −, ×, ÷, <, >, =. Special Commands (including graphics): CLS (clear screen), SET (x, y), **RESET** (x, y), POINT (x, y), formatted PRINT. Array and string capability. Data storage and retrieval.

SOFTWARE Level II (12K ROM) (All features of Level I PLUS):
Editing features, 16-digit accuracy, formatted print, error-trapping, program tracing, faster cassette transfer, faster cassette verification, cassette object files, comprehensive string variable functions, integer arithmetic, arrays, automatic line numbering, named files, variable names, more economical program storage, faster graphics, keyboard rollover, trig functions.

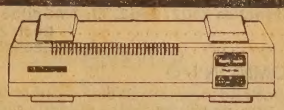
ELECTRICAL:
U.L. listed for 120VAC, 60 Hz.

TRS-80™ MINI-DISK SYSTEM



Gives you more data storage space and greater operating speed. Up to four may be used at one time. 80,000 bytes per disk storage capability. Transfer rate is 125K bits per second, with an average acess time of ½ second. Hard error rate is 1 per 100 billion bits read. The mini-disk system enhances Level-II BASIC by adding 15 additional features. Includes TRS-80™ DOS software. Requires 16K RAM, Level II BASIC and the EXPANSION INTERFACE. (Includes cable). For 120VAC, U.L. listed.

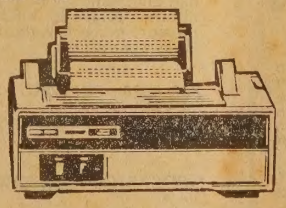
910-9600. 26-1160. ***(1st disk in system)*** ..... **Each 499.00**
910-9605. 26-1161, 89,600 Bytes ***(2nd, 3rd or 4th disk)*** ..... **Each 489.00**
910-9610. 26-0405. 3-pack Mini-Diskettes ..... **Per Pack 14.95**



TRS-80™ EXPANSION INTERFACE

Upgrade your system as your needs increase. Contains sockets for additional 16K or 32K RAM and a disk controller for up to 4 mini-disks. Software-selectable dual cassettes can be used. Features a Centronics parallel port, real time clock, and a card slot for an RS-232C interface — or whatever! Usually requires Level-II BASIC.

910-9620. 26-1151 ..... **Each 299.00**



TRS-80™ LINE PRINTER

Uses fanfold or plain roll paper up to 9.8" wide or pre-printed forms. Prints from 10 to 16.5 characters per inch at speeds from 60 to 110 characters per second. Adjustable print density. With top-of-form software control, friction feed, and 5x7 impact dot matrix. Requires 4K RAM, Level-II BASIC, EXPANSION INTERFACE. For 120VAC. U.L. listed.

910-9640. 26-1150 ..... **Each 1299.00**



TRS-80™ SCREEN PRINTER

A remarkable, low-cost concept in hard copy! Just a touch of a button prints whatever is shown on your video screen (including graphics) on 4" wide electrostatic paper. Prints 2200 characters per second. Requires only 4K RAM and Level-I BASIC, so you can run it right off the standard TRS-80™ as is. For 120VAC. U.L. listed.

910-9625. 26-1151 ..... **Each 599.00**
910-9630. 26-1151 Paper. 3 200' rolls per pack ..... **Per Pack 12.75**

SOFTWARE

PAYROLL PROGRAM. Handles up to 12 employees. An invaluable business tool!
910-9670. Model 26-1501 ..... **Each 19.95**

IN-MEMORY INFORMATION PROGRAM. Three assembly language programs replace index card system.
910-9672. Model 26-1502 ..... **Each 19.95**

HOME RECIPE PROGRAM. Computerize menus, directory and message center.
910-9674. Model 26-1601 ..... **Each 4.95**

PERSONAL FINANCE PROGRAM. Keep track of household budgets. 7-cassette portfolio with manual.
910-9676. Model 26-1602 ..... **Each 14.95**

MATH 1 PROGRAM. Basic math facts educational primer designed by a teacher. Evaluation test program is included.
910-9678. Model 26-1701 ..... **Each 19.95**

ALGEBRA 1 PROGRAM. Supplemental course in Algebra. Nine programs on 3 cassettes.
910-9680. Model 26-1702 ..... **Each 19.95**

STATISTICAL ANALYSIS PROGRAM. For routine analysis of data in business, education, medicine, and other fields.
910-9682. Model 26-1703 ..... **Each 29.95**

QUICK, WATSON! GAME PROGRAM. Game of logical deduction.
910-9684. Model 26-1802 ..... **Each 4.95**

T-BUG PROGRAM. For experienced programmers. Monitor program allows access to the Z-80 CPU. Possible to program in machine language on a Level-I BASIC TRS-80™.
910-9686. Model 26-2001 ..... **Each 14.95**

EDITOR/ASSEMBLER PROGRAM. Designed for experienced programmers. 16K RAM required, but will run with Level-I BASIC. 2-cassette program creates source and object files. Standard Zilog mnemonics used.
910-9688. Model 26-2002 ..... **Each 29.95**

LEVEL-I BASIC COURSE. 8 lessons with 26 programs. Learn to use the TRS-80™ to its fullest potential.
910-9690. Model 26-2003 ..... **Each 12.95**

LEVEL-I USER'S MANUAL. Step-by-step guide with programs, charts, and illustrations.
910-9692. Model 26-2101 ..... **Each 5.95**

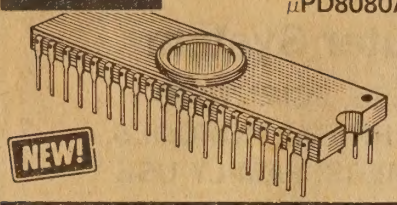
C-20 CERTIFIED DIGITAL 20-MINUTE CASSETTE TAPE.
910-9694. Model 26-0301 ..... **Each 3.49**

See Inside Back Cover For Additional System Info

Throughout the year, ALLIED will be adding new and interesting software programs

μCOM-8 Microprocessor Products

μPD8080AFC 8-BIT N-CHANNEL MICROPROCESSOR



A complete 8-bit parallel processor for use in general purpose digital computer systems. Fabricated on a single LSI chip using N-channel silicon gate MOS process, offering much higher performance than conventional microprocessors (1.28 μsec minimum instruction cycle). Forms a complete microcomputer system when interfaced with I/O ports (up to 256 input and 256 output) and any type or speed of semiconductor memory. 78 powerful instructions. Direct access to 64 bytes of memory with 16-bit program counter. Automatic stack memory operation with 16-bit stack pointer. TTL compatible (except clocks). Clock freq.: 2.0 MHz. 40-pin plastic package.

The μPD8080AFC contains six 8-bit data registers, an 8-bit accumulator, four testable flag bits, and an 8-bit parallel binary arithmetic unit. Decimal arithmetic capability. Double length operations including addition. Uses 16-bit bus to directly address 64K bytes of memory. Four addressing modes: direct, register, register indirect, immediate. Multi-byte interrupt capability. Stack architecture; any portion of external memory can be used as LIFO stack. Separate 16-line address and 8-line bidirectional buses. **Mfr. Equivalent: Intel 8080A, National INS080A. Signetics MP8080A, T.I. TMS8080A, A.M.D. 8080.**

869-8080. μPD8080AFC. 1-24 ..... Each 10.00
25-Up ..... Each 8.30

μPD410D 4096-BIT HIGH SPEED STATIC MOS RAM

A very high speed 4K bit static Random Access Memory, organized as 4096 words by 1 bit. Fabricated using N-channel silicon gate MOS technology. All signals are TTL compatible, except Chip Enable which is standard +12 V MOS level. Static operation; no refresh required. Circuit operation starts with rising edge of Chip Enable; data is latched and valid until falling edge. Address and Chip Select signals are latched on-chip. Fully decoded. Three-state output. High speed access time: 100 ns max. Cycle time: 220 ns min. Power: 75mW max. standby, 470 mW typ. active. Supply voltages: V_{DD} = +12V, V_{CC} = +5V, V_{BB} = −5V. Pin compatible with μPD411 and other 4K dynamic RAMs. 22-pin ceramic DIP.

869-0410. μPD410D. 1-24 ..... Each 11.70
25-Up ..... Each 9.60

μPD5101LC 1024-BIT STATIC CMOS RAM

Very low power 1024-bit (256 words by 4 bits) RAM meets power requirements of battery-operated systems. Can be used to ensure non-volatility of data in systems using battery backup power. Two Chip Enables, with device being selected when CE1 is low and CE2 high. Can be placed in standby mode (drawing 15 μA max.) by driving CE1 high and inhibiting address and control line transitions; or unconditionally by driving CE2 low. 3-state output. Directly TTL compatible. Guaranteed to retain data with supply as low as 2.0 V; normal operation requires single −5 V supply. Access time: 800 ns. 22-pin DIP. **Mfr. Equivalent: Intel 5101, National MM74C920.**

869-5101. μPD5101LC. 1-24 ..... Each 11.60
25-Up ..... Each 8.30

μPD2101ALC-4 STATIC MOS RAM WITH SEPARATE I/O

A 1024-bit (256x4) RAM requiring no clocks or refreshing. High speed, low cost, simple interfacing. Meets the needs of small system memories. Directly TTL compatible. Two Chip Enables allow easy selection of individual package when outputs are OR-tied. Simple memory expansion. Output Disable for easy use in common data bus systems; no need for bi-directional logic in common I/O system. Output data is same polarity as input; non-destructive readout. Single +5 V supply. 3-state output. Access time: 450 nsec max. Low standby power (36 mW typ.). N-channel MOS processing; 22-pin plastic package. **Mfr. Equiv.: Intel 2101, National MM2101, Signetics 2101/2601, T.I. TMS4039.**

869-2101. μPD2101ALC-4. 1-24 ..... Each 3.40
25-Up ..... Each 2.50

μPD2102ALC-4 FULLY DECODED STATIC MOS RAM

A 1024-bit (1024x1) static RAM requiring no clocks or refreshing. Offers access time of 450 ns maximum to meet requirements of memory applications where speed, low cost and easy interfacing are prime objectives. Directly TTL compatible. A single Chip Enable pin provides selection of individual device in systems with OR-tied outputs. Requires only a single +5 V supply. In standby, with supply lowered to 1.5 V, dissipation is only 42 mW max. Typical power: 150 mW, 3-state output. Fully decoded; on-chip address decode. Simple memory expansion. Static charge protection. 16-pin plastic DIP. **Mfr. Equiv.: Intel 2102, National MM2102, Signetics 2102/2602, T.I. TMS4033.**

869-2102. μPD2102ALC-4 1-24 ..... Each 2.60
25-Up ..... Each 2.10

μPD2111ALC-4 STATIC MOS RAM WITH COMMON I/O

1024-bit (256x4) RAM with common input/output and output disable; requires no clocks or refreshing. N-channel MOS technology. Non-destructive data readout; same polarity as input. All inputs, outputs and single +5 V supply are TTL compatible. Separate Chip Enable leads allow easy selection of individual package with OR-tied outputs. Access time: 450 ns max. Fully decoded; on-chip address decode. Static charge protection. Low standby power with supply reduced to +1.5 V. 3-state output. 18-pin plastic DIP. **Mfr Equiv.: Intel 2111, National MM2111, Signetics 2111/2611, T.I. TMS4042.**

869-2111. μPD2111ALC-4. 1-24 ..... Each 3.70
25-Up ..... Each 3.00

μPD411AC 4096-BIT DYNAMIC RAM

N-channel MOS RAM (4096 words by 1 bit) for applications where low cost and large bit storage are important. Dynamic circuitry reduces standby power dissipation (0.7 mW typ.). Single low-capacitance high level clock input with solid ±1 V margins. Refreshing is easily done by performing one read cycle on each of the 64 row addresses; each must be refreshed every 2 msec. TTL compatible (except Chip Enable). Simple memory expansion by Chip Select. 3-state output. Access time: 300 ns. 22-pin plastic DIP. **Mfr. Equiv.: Intel 2107B, National MM5280, Signetics 2604, T.I. TMS4060.**

869-0411. μPD411AC. 1-24 ..... Each 5.31
25-Up ..... Each 4.42

μPD371D TAPE CASSETTE/CARTRIDGE CONTROLLER

High performance N-channel LSI controller interfaces between most cassette or cartridge tape drives and most microprocessors or mini-computers. Converts 8-bit parallel data into serial phase encoded data to be written on tape, converts phase encoded data from tape into 8-bit parallel data, calculates CRC during write operations, verifies CRC during read operations, etc. Read and write data paths are completely separate. High speed file search. Multiple drive capability. Compatible with ANSI, ECMA and ISO standard. Max. data transfer rate: 375K bits/second, equivalent to 468 IPS at 800 BPI. 42-pin.

869-0371. μPD371D. 1-24 ..... Each 35.00
25-Up ..... Each 30.00

μPD372D FLOPPY DISK CONTROLLER

Single LSI floppy disk controller chip contains the circuitry to read, write, track seek, load and unload the head, generate and detect CRC characters, etc. Completely compatible with IBM 3740, Minifloppy,™ hard sector, and other formats; controls up to 4 floppy disk drives. May be interfaced directly to a host processor. Performs overlap seeks. Input and output TTL compatible (except ϕ1 and ϕ2). Standard power supplies (+12, +5, −5 V). Data transfers through addressable internal registers. Bidirectional data bus and 5 register select lines give access to 9 internal registers. Internal interval timer.

869-0372. μPD372D. 1-24 ..... Each 39.00
25-Up ..... Each 34.00

μPB8212C EIGHT-BIT INPUT/OUTPUT PORT

Consists of an 8-bit latch with three-state output buffers, along with control and device selection logic. Also includes a service request flip-flop for control and generation of interrupts to the microprocessor. Multi-mode device can be used to implement latches, gated buffers or multiplexers—all of the principal peripheral and input/output functions of a microprocessor system. Fully parallel 8-bit data register and buffer. Low input load current: 0.25 mA max. Outputs sink 15 mA. Asynchronous register clear. 3.65-volt output high voltage for direct interface to 8080A processor. 24-pin plastic package.

869-8212. μPB8212C. 1-24 ..... Each 4.20
25-Up ..... Each 3.00

μPB8214C PRIORITY INTERRUPT CONTROLLER

Eight-level controller, designed to simplify interrupt driven microcomputer systems. Requires a single +5 V power supply. Accepts up to eight interrupts, determines which has the highest priority, then compares that priority with a software-created current status register. If incoming request is of higher priority than the interrupt in service, an interrupt request is generated (along with vector information). The interrupt structure of the microcomputer system can be expanded beyond eight levels by cascading. Interrupt and vector information outputs are open collector. 24-pin plastic dual-in-line pkg.

869-8214. μPB8214C. 1-24 ..... Each 7.15
25-Up ..... Each 5.30

μPB8216C 4-BIT PARALLEL BIDIRECTIONAL BUS DRIVER

A data bus buffer driver compatible with the μCOM-8 microprocessor family. For driving MOS, the DO outputs provide a high V_{OH} (3.65 volts) for direct interfacing. When used in high capacitance terminated bus structures, the DB outputs produce a high current drive (55 mA I_{OL}) capability. Offers low input load current (0.25 mA maximum). Three-state outputs. All inputs are low power TTL compatible. The μPB8216C comes in a 16-pin plastic package; designed to reduce system package count.

869-8216. μPB8216C. 1-24 ..... Each 3.60
25-Up ..... Each 3.05

μPB8224C CLOCK GENERATOR AND DRIVER

Single-chip clock generator/driver for 8080A processors. Clock frequency is determined by a user-specified crystal; capable of meeting the timing requirements of the entire 8080A family. MOS and TTL level clock outputs are generated (TTL for DMA activities). Additional logic circuitry provides signals for power-up reset, an advanced status strobe, and properly synchronizes the ready signal to the processor; greatly reduces number of chips needed. Oscillator output for external timing. Schottky process. 16-pin Cerdip pkg.

869-8224. μPB8224C. 1-24 ..... Each 6.50
25-Up ..... Each 5.40

μPB8228C/8238C SYSTEM CONTROLLER AND BUS DRIVER

Single-chip controller and bus driver for use in 8080A-based systems. All the required interface signals necessary to connect RAM, ROM and input/output components are generated. Provides bidirectional three-stage bus driver for high TTL fan-out and isolation of the processor data bus from the system data bus for increased noise immunity. The system controller portion consists of a status latch for definition of processor machine cycles, and a gating array to decode this information for direct interface to system components. Enables gating of a multi-byte interrupt onto the data bus, or can automatically insert a RESTART 7 interrupt instruction. Has 3.60-volt output for direct interface to 8080A. Schottky bipolar technology. μPB8228D is for use in small memory systems without tight write time constraints; μPB8238D is for larger systems. 28-pin package.

869-8228. μPB8228C. 1-24 ..... Each 8.00
25-Up ..... Each 6.75
869-8238. μPB8238C. 1-24 ..... Each 8.00
25-Up ..... Each 6.75

μPD8251C PROGRAMMABLE COMMUNICATION INTERFACE

Universal synchronous/asynchronous receiver/transmitter (USART) for microcomputer data communications. Programmed by μPD8080 or other processor to communicate in commonly used serial data techniques including IBM Bi-Sync. Asynchronous: 5-8 bit characters; clock rate—1, 16, or 64 x Baud rate; break character generation; 1, 1½ or 2 stop bits; false start bit detector. Synchronous: 5-8 bit characters; internal or external character sync; automatic sync insertion; single or double sync characters. Baud rate: sync, DC to 56K Baud; async, DC to 9.6K Baud. Full duplex, double buffered. Parity, overrun, framing flags. TTL compatible. Single +5 V supply. N-channel MOS. 28-pin plastic DIP. **Mfr. Equivalent: Intel 8251, National INS8251.**

869-8251. μPD8251C. 1-24 ..... Each 11.00
25-Up ..... Each 9.50

μPD8255C PROGRAMMABLE PERIPHERAL INTERFACE

General purpose programmable input/output device for use with 8080A microprocessor. 24 I/O lines may be programmed in two groups of 12, used in three major modes. In Basic mode, each group may be programmed in a set of 8 and a set of 4 as input or output. In Strobed mode, each group may be programmed for 8 lines of input or output; three of the remaining four pins in each group are for handshaking strobes and interrupt control signals. Bidirectional Bus mode uses 8 lines of Port A for bidirectional bus, 5 lines from Port C for control signals. TTL compatible. Direct bit SET/RESET. Eight 2 mA Darlington drive outputs for printers and displays. 40-pin plastic DIP. **Mfr. Equivalent: Intel 8255, National INS8255.**

869-8255. μPD8255C. 1-24 ..... Each 10.00
25-Up ..... Each 8.00

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Microcomputer Components and Manuals

μCOM-8 MICROCOMPUTER SELECTION GUIDE

MICROPROCESSOR

Stock No.	Mfr's Type	Description	Size	Technology	Output	Cycle	Supply Voltages	No. of Pins	EACH 1-24	EACH 25-Up
869-8080	μPD8080AFC	Microprocessor (compatible)	8-bit	NMOS	3-state	2 MHz	+12, ±5	40	10.00	8.30

RANDOM ACCESS MEMORIES (RAMs)

Stock No.	Mfr's Type	Description	Size (bits)	Technology	Output	Cycle Time	Supply Voltages	No. of Pins	EACH 1-24	EACH 25-Up
869-0410	μPD410D	Static RAM	4096 x 1	NMOS	3-state	100-200 ns	+12, ±5	22	11.70	9.60
869-5101	μPD5101C-E	Static RAM	256 x 4	CMOS	3-state	450-650 ns	+5	22	11.60	8.30
869-2101	μPD2101ALC-4	Static RAM	256 x 4	NMOS	3-state	250-450 ns	+5	22	3.40	2.50
869-2102	μPD2102ALC-4	Static RAM	1024 x 1	NMOS	3-state	250 450 ns	+5	16	2.60	2.10
869-2111	μPD2111ALC-4	Static RAM	256 x 4	NMOS	3-state	250-450 ns	+5	18	3.70	3.00
869-0411	μPD411AC	Dynamic RAM	4096 x 1	NMOS	3-state	200-350 ns	+12, ±5	22	5.31	4.42

SYSTEM SUPPORT COMPONENTS

Stock No.	Mfr's Type	Description	Size	Technology	Output	Cycle	Supply Voltages	No of Pins	EACH 1-24	EACH 25-Up
869-0371	μPD371D	Tape Cassette Controller	8-bit	NMOS	3-state	2 MHz	+12, ±5	42	35.00	30.00
869-0372	μPD372D	Floppy Disk Controller	8-bit	NMOS	3-state	2 MHz	+12, ±5	42	39.00	34.00
869-8212	μPB8212C	Input/Output Port	8-bit	Bipolar	3-state	.....	+5	24	4.20	3.00
869-8214	μPB8214C	Priority Interrupt Controller	3-bit	Bipolar	Open collec.	3 MHz	+5	24	7.15	5.30
869-8216	μPB8216C	Bus Driver (non-inverting)	4-bit	Bipolar	3-state	.....	+5	16	3.60	3.05
869-8224	μPB8224C	Clock Generator/Driver	....	Bipolar	Hi-level clock	.....	+12, ±5	16	6.50	5.40
869-8226	μPD8226C	Bus Driver	4	Bipolar	3-state	.....	+5	16	4.80	4.06
869-8228	μPB8228C	System Controller	8-bit	Bipolar	3-state	.....	+5	28	8.00	6.75
869-8238	μPB8238C	System Controller (large)	8-bit	Bipolar	3-state	.....	+5	28	8.00	6.75
869-8251	μPD8251C	Programmable Communication Interface (ASYNC/SYNC)	8-bit	NMOS	3-state	A=9.6K baud S=56K baud	+5	28	11.00	9.50
869-8253	μPD8253C	Programmable Interval Timer	8	NMOS	3-state	.....	+5	24	27.00	23.00
869-8255	μPD8255C	Peripheral Interface	8-bit	NMOS	3-state	.....	+5	40	10.00	8.00
869-8257	μPD8257C	Programmable DMA Controller	....	.....	.....	.....	.....	40	20.00	15.00
869-8259	μPD8259C	Programmable Interrupt Controller	8	NMOS	3-state	.....	+5	28	20.00	15.00
869-0005	μCOM-8	Microcomputer Catalog							Each 2.25	

See Preceding Page for Full Description of μCOM-8 Component

Z80 MICROCOMPUTER COMPONENTS

A complete set of components, development systems and support software. Includes all circuits necessary to build high-performance microcomputer systems with virtually no other logic and a minimal number of low-cost memeory elements. Can be configured with any standard memory to produce an extremely wide range of capabilities: All inputs and outputs TTL compatible. Single 5 V supply with single-phase 5 V clock. **40-pin plastic DIP (except CTC).**

Z80-CPU-PS CENTRAL PROCESSING UNIT

Third generation single-chip microprocessor with unrivaled computational power. All output signals are fully decoded and timed to control standard memory or peripheral circuits. N-channel, ion implanted, silicon gate MOS process. 158 instructions, including all 78 of the 8080A instructions, with total software compatibiltiy; plus 4-, 8- and 16-bit operations with more useful address modes (indexed, bit, relative). 17 internal registers. Three models of fast interrupt response plus non-maskable interrupt. Built-in dynamic RAM refresh circuitry. Internal register contains 208 bits of accessible Read/Write memory. 16-bit stack pointer. Two sets of six general purpose registers, two sets of accumulator and flag registers.
985-0005. 1-99.....Each 23.50 100-Up.....Each 16.25

Z80-DMA-PS DIRECT MEMORY ACCESS

Programmable single-channel device provides all address, timing and control signals to transfer blocks of data between two ports within a Z80-CPU based system. Can search a block of data for a particular byte (bit maskable), with or without simultaneous transfer. Three operation classes: transfer only, search only, or search-transfer. Address and Block Length registers are fully buffered. Dual addresses generated during a transfer. Four operating modes: byte-at-a-time, burst, continuous, or transparent. Up to 1.25 megabyte Search or Transfer rate. Channel may be enabled, disabled or reset under software control. Daisy-chain priority interrupt and bus acknowledge. Multiple DMAs easily configured for rotating priority. N-channel silicon gate depletion load technology.
985-0020. 1-99.....Each 42.00 100-Up.....Each 32.00

Z80-CTC-PS COUNTER/TIMER CIRCUIT

Programmable four-channel device provides counting and timing functions for the CPU. Independent 8-bit counter/16-bit timer channels may be selected to operate in either counter or timer mode. Programmable interrupts; time constant register; readable down counter. Selectable 16 or 256 clock prescaler for each timer channel. Positive or negative trigger. Three channels have zero count/timeout outputs capable of driving Darlington transistors. N-channel silicon gate depletion load technology. **28-pin DIP.**
985-0015. 1-99.....Each 12.75 100-Up.....Each 8.45

Z80-SIO-PS SERIAL INPUT/OUTPUT

Programmable dual-channel device provides formatting for serial data communications. Handles asynchronous, synchronous, and sync bit-oriented protocols. Can generate CRC codes in any sync mode; can be programmed by CPU for any traditional sync format. Two full duplex channels. Data rates: 0 to 550K bits/second. Receiver data registers quadruply buffered; transmitter doubly. 8 control inputs, outputs. Async: 5, 6, 7 or 8 bits/character; 1, 1½ or 2 stop bits; even, odd or no parity; x1, x16, x32, x64 clock.
985-0025. 1-99.....Each 68.00 100-Up.....Each 61.00

Z80-PIO-PS PARALLEL INPUT/OUTPUT

Programmable two-port device provides TTL-compatible interfacing between peripheral devices and CPU. Two independent 8-bit bidirectional peripheral interface ports with "handshake" data transfer control, interrupt-driven for fast response. Four modes: byte output, byte input, byte bidirectional bus, bit. All data transfer between peripheral and CPU is under total interrupt control. Daisy-chain priority interrupt logic provides for automatic interrupt vectoring. 8 outputs can drive Darlington transistors.
985-0010. 1-99.....Each 18.00 100-Up.....Each 12.35

Z80 BOOKS AND MANUALS

Z80 CPU Technical Manual. Complete details on Z80 Central Processing Unit. Covers architecture, pin description, timing, instruction set, flags, OP codes and execution times, interrupt response, hardware and software implementation examples, and full electrical specifications.
985-0100 .....Each 7.50

Z80 PIO Technical Manual. Full details on Parallel Input/Output component.
985-0105 .....Each 4.50

Z80 CTC Technical Manual. Full information on Counter/Timer Circuit.
985-0010 .....Each 4.50

Z80 DMA Product Specification Manual. Detailed specs on Direct Memory Access.
985-0015 .....Each 1.25

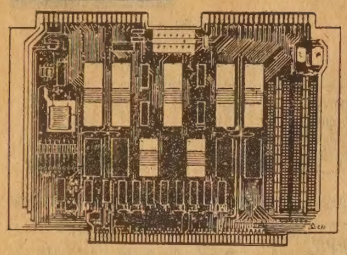
Z80 SIO Product Specification Manual. Specs on Serial Input/Output unit.
985-0120 .....Each 1.25

Z80 Programming Manual. Programming details for complete Z80 system.
985-0125 .....Each 7.50

Z80 Program Reference Card. Details on each instruction. Pocket-size format.
985-0130 .....Each .78

See Page 2 for the Allied Electronics Facility Nearest You

F8 Microcomputer and Support Equipment

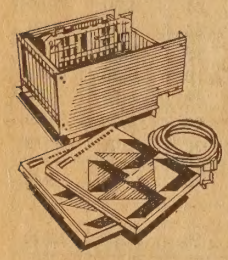


F8/OCM-1 ONE CARD MICROCOMPUTER

- **Entire Microcomputer is Contained on a Single Board**
- **Provides a Highly Efficient Software Development and Hardware Simulation Tool When Used with the Formulator Family (See Below)**

The OCM-1 is a complete microcomputer system with a lot to offer on a single board. Features include: 64 bytes of scratch pad memory, 1K bytes of RAM, 2K bytes of EPROM (sockets provided), 2K bytes of PROM (sockets provided), 6K bytes of ROM, up to four programmable timers, up to four programmable interrupts, RS232 interface (current loop optional), 2 MHz clock, self-contained "Fairbug" teletype operating system, up to 64 individually programmable, bidirectional, latched I/O lines and up to two external event counters. The entire microcomputer is contained on a single board (epoxy glass with solder mask) measuring approximately 7.5x10.5". It includes a 2x4" pre-drilled breadboarding area for users who want to develop unique system configurations. Power requirements: The OCM-1 requires three power supply voltages: +12 at 0.25A, +5V at 1.4A and −5V at 0.09A. The −5V supply is used only for the 2708 EROM devices. All supply voltages are ±5% maximum. OCM-1 Users Manual, Fairbug Users Guide and F8 Guide to Programming are included with the OCM-1.

569-9095. F8/OCM-1 ..... **Each 349.00**



F8 FORMULATOR DEVELOPMENT SYSTEM

Mark I. A low-cost hardware development system, intended to meet the user's requirements and resources. Has sufficient hardware to allow the user to develop and debug a breadboard directly in the system. Software, such as the Fairbug Operating System (see Growth Package below) provides the Mark I with sufficient debug capability to load a program, monitor and alter memory locations, store a program on external file, and generate a tape suitable for burning PROM memory devices. Consists of a processor board with F8 CPU, PSU (with Fairbug program), DMI and SMI; plus 1000 byte RAM memory and teletype interface. With card cage and motherboard, board to teletype cable I/O cable kit, user's guide and hardware reference manual.

569Q9100 ..... **Each 656.00**

F8 FORMULATOR GROWTH PACKAGES

Contains all necessary material to convert Formulator Mark I (above) into the Formulator Mark II. Gives user complete software capability, including an editor, assembler, and debug package. Includes 16K byte RAM module and Mark II operating system.

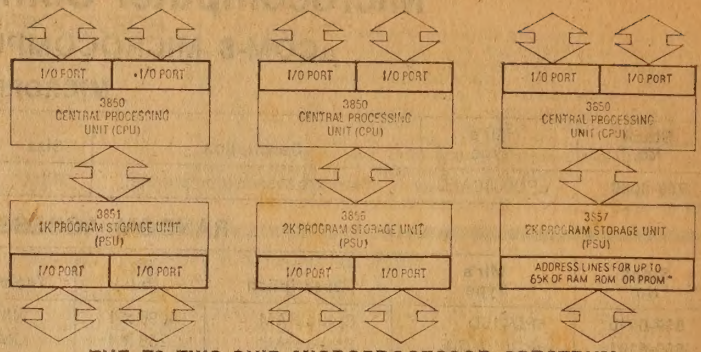
Type F895080132. Teletype compatible. With cable; operating system on paper tape.
569Q9105 ..... **Each 1300.00**

Type F895080133. Silent 733 compatible. Operating system on tape cassette.
569Q9110 ..... **Each 1300.00**

F8 MICROPROCESSOR COMPONENTS

Epoxy encapsulated, 0° to 70°C. The Central Processing Unit (3850PC) has 64 bytes of scratchpad RAM memory, eliminating the need for external RAM circuits in many applications. Clock and power-on-reset circuitry, normally requiring additional IC packages, are included on-chip. Has 16 bits of bidirectional I/O lines internally latched, capable of driving standard TTL load. *Consult Allied for price: minimum quantity 200 pieces, plus $1500 mask charge.

Stock No.	Mfr's Type	Description	EACH 1-99	EACH 100-Up
569-9002	3850PC	Central Processing Unit (CPU); includes 64 bytes scratchpad RAM and two 8-bit bidirectional I/O ports (2MHz, Xtal or LC external oscillator)	14.90	9.95
569-9004	3851APC	Program Storage Unit (PSU); includes 1K bytes ROM programmed with FAIRBUG bootstrap debugging program, and two 8-bit bidirectional I/O ports	14.90	9.95
569Q9006	3851XPC	Program Storage Unit with 1K byte ROM, programmed to user specification	....	*
569-9008	3852PC	Dynamic Memory Interface (DMI); interfaces CPU with std. dynamic or static RAM, ROM or PROM; refresh logic	11.15	7.45
569-9011	3853PC	Static Memory Interface (SMI); interfaces CPU with standard static RAM, ROM or PROM	11.15	7.45
569-9013	3854PC	Direct Memory Access (DMA); accesses memory directly, bypassing the CPU	8.90	5.95
569-9016	3861EPC	Peripheral Input/Output (PIO); includes two 8-bit bidirectional I/O ports; similar to PSU, without ROM	9.76	6.45



THE F8 TWO-CHIP MICROPROCESSOR SPECTRUM

The F8 is a family of LSI integrated circuits with a carefully planned architecture to minimize system cost, through minimum chip count. The family consists of a Central Processing Unit, Program Storage Units, Memory Interfaces and Peripheral Input/Output Control Devices, all of which can be purchased separately.

Lowest Cost by Lowest Chip Count

The F8 has the lowest circuit count regardless of memory requirements. The 3850 Central Processing Unit contains 64 bytes of RAM on-chip; with the 3851 Program Storage Unit you get an additional 1 x 8 of ROM; with the 3856 an additional 2K. For more complex control applications, consider a system consisting of a 3850 CPU and a 3857 program storage unit: 2K of ROM plus the ability to interface with up to 65K of memory storage — RAM, ROM or PROM. (Write for information and prices on the 3856 and 3857 PSU).

In any configuration, a two-chip F8 system can replace the hundreds of TTL packages and discrete components required for applications already under electronic control, and can easily be used to effectively replace existing electromechanical control configurations.

Lower Manufacturing Costs

The reduced-circuits implementation of the F8 means fewer parts to procure, test and assemble. It also means you need less board space. The result — lower costs from purchasing through manufacturing.

More Reliable Systems

Reliability is directly related to parts count and the number of interconnects. The F8's unique architecture keeps both down to a minimum, thus increasing total system reliability.

Shorter Design Cycles

The F8 Formulator Development System (listed below) gets your product to market faster through efficient use of your engineering time in developing hardware and software. The lead you get by being to market first translates directly into higher profit margins.

- **CPU, I/O and Memory Specifically Tailored to the User's Control Applications**
- **2-Chip Minimum Configuration for Lowest Cost**
- **Full Line of Software Support Insures Minimal Development Time and Trouble**
- **Epoxy Encapsulated Packaging Offers Lowest Costs**
- **Systems Can Be Modularly Expanded to Meet Changing Control Requirements**



F8 MICROPROCESSOR LITERATURE

F8 User's Guide. An in-depth description of F8 components. Has detailed specifications of each device, including signal timing.
569-9115. No. F867095665 ..... **Each 8.75**

F8 Guide to Programming. Introduction to machine language and assembly language programming for the F8 system.
569-9120. No. F867095664 ..... **Each 8.75**

Formulator User's Guide. Tells how to use Formulator system to convert source programs into object programs.
569-9125. No. F867095649 ..... **Each 8.75**

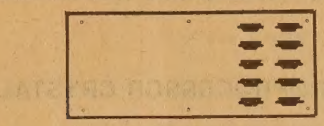
Formulator Hardware Reference Manual. Technical description of Formulator system, component subsystems and module options.
569-9130. No. F867095648 ..... **Each 12.50**

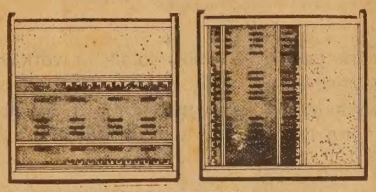
Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Interface Boards, Enclosures and Receptacles

ASSEMBLED ENCLOSURES WITH INTERIOR MOUNTING SYSTEMS







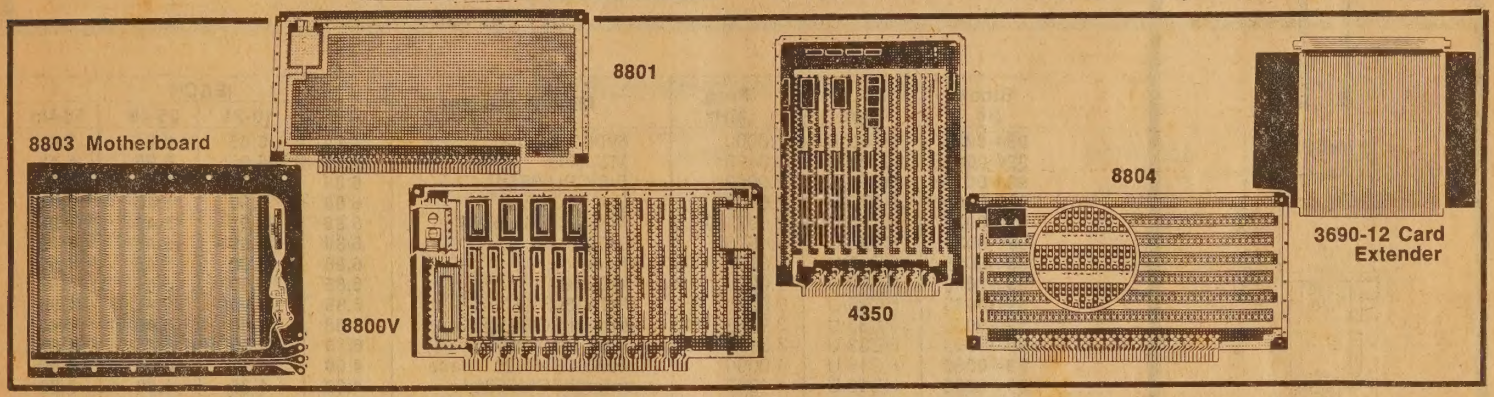
Beautiful, sturdy blue vinyl finished aluminum enclosures, fully assembled. Heavy extruded aluminum cross members for mounting adjustable card guides (supplied). Motherboard and/or connector mounting structure and power supply chassis plate included; motherboard and connectors must be ordered separately, below. Slide-off sides, top and perforated bottom; detachable front and rear panels. Holds up to twenty-one 5.3x10″ (135x254mm) cards in adjustable guides (12 pair furnished). Size (WxDxH): 17.58x17.1x9.01″ (447x434x229mm). Weight 18 lbs. (8.2 kg).

Type VP1. "Altair" style; cards mount perpendicular to front panel.
977Q1100. 1-4.....**Each 163.00** **5-Up**.....**Each 146.00**

Type VP2. "IMSAI" style; cards mount parallel to front panel.
977Q1105. 1-4.....**Each 159.00** **5-Up**.....**Each 143.10**

TYPE BP17-9 ACCESSORY PANEL

Input/output connector rear panel offers 10 connector cutouts for ITT Cannon DB25S type 25-pin connectors. May be mounted on VP1 or VP2 case with cutouts on right or left side. Wt. 2 lbs. (.9 kg).
977-0180. 1-4.....**Each 12.17** **5-Up**.....**Each 6.95**



S-100 COMPATIBLE MICROPROCESSOR/INTERFACE PLUGBOARDS

For interface, memory expansion and experimentation. User can readily install any DIP and quickly make the necessary interconnections to build peripheral interface equipment, expand memory, or I/O circuitry, FR Type Epoxy Glass Composite material (except 8803); 2-oz. (57 gm) solder plated copper. Overall grid of .042″ (1.1mm) dia. holes on 0.1″ (2.5mm) centers; heavy tinned buses; 50/100 nickel plated gold flashed contacts spaced 0.125″ (3.2mm).

TYPE 8803 MOTHERBOARD. For S-100 bus microcomputers. Mounts 11 receptacles with 100 contacts or 100 receptacles plus interconnections to smaller boards for expansion. Connectors mount with tabs protruding through .038″ (1mm) dia. holes in rows spaced .250″ (6.4mm) on each connector posiiton, and 0.75″ (19mm) between positions. Includes etched circuits and instructions for active or passive terminations, plus 12 tantalum capacitors for +5, +12, —12 volt buses, and spacers for mounting in VP1 or VP2 case (listed above). G-10 epoxy glass board with 2-ounce copper, solder plated circuitry plus solder mask to avoid accidental short circuits. Large buses: +5 V and GND (10 amps), +12 V or 16 V (7 amps). Current ratings per MIL-STD-275 with 10° rise. Size: 11x8.5″. (279x216mm). Shpg. wt. 2 lbs. (0.9 kg).
977-2030 1-4.....**Each 36.88** **5-Up**.....**Each 29.50**

TYPE 8801-1 PLUGBORD. 10x5.3″. (254x135mm) board with 100 (50 each side) nickel plated gold flashed contacts on 0.125″ (3.2mm) centers. Overall grid of .042″ (1.1mm) dia. holes on 0.1″ (2.5mm) centers, drilled heat sink holes, but no bus or pad patterns. Shpg. wt. 1 lb. (454 gm).
977-2025. 1-4.....**Each 14.95** **5-Up**.....**Each 13.46**

TYPE 8801 PLUGBORD. 10″ wide by 5.3″ high (254x135mm) with 100 (50 each side) contacts on .125″ (3.2mm) centers. Great flexibility; ideal for mounting wrap post tail sockets or components by "tack" soldering. Individual tinned square pads surround most holes (pads may lift off if excessive soldering heat is applied). Heavy tinned power and ground buses on board periphery; one provided regulator position has prewired power and ground connections. Top of board has a quarter-inch two-hole-wide copper-free area for mounting input/output connectors or other devices. Shpg. wt. 1 lb. (454 gm).
977-2020. 1-4.....**Each 21.40** **5-Up**.....**Each 17.96**

TYPE 8804 PLUGBORD. "Any-DIP" S-100 board has full power and ground planes back-to-back on opposite board sides with offset pads. When wiring pins are installed in pads on one side, pins clear pads on opposite side. Accommodates DIPs with leads spaced 0.1″ by 0.3″, 0.4″, 0.6″ or 0.9″ (2.5mm by 7.6, 10.2, 15.2 or 22.9mm). Etched buses reduce wiring time. Two regulator positions; one prewired. One heat sink furnished. 10x5.3″ (254x135mm); 50 contacts each side on .125″ (3.2mm) centers. Shpg. wt. 1 lb. (454 gm).
977-2040. 1-4.....**Each 21.95** **5-Up**.....**Each 19.76**

TYPE 3690-12 CARD EXTENDER. Provides 7.5″ (19.05 cm) extension to lift or extend operating cards away from adjacent cards, to facilitate probing, measurement or observation. Mounted connector has tabs soldered to bus lines which terminate in 100 nickel plated gold flashed contacts. Connector pattern and placement is S-100 compatible; the extra length permits use in deep cages or chassis. Shpg. wt. 2 lbs. (907 gm).
977-1410 1-4.....**Each 29.17** **5-Up**.....**Each 25.00**

TYPE 8800V PLUGBORD. 10″ wide by 5.3″ high (254x135mm) with 100 (50 each side) contacts on .125″ (3.2mm) centers. Can hold two 40-pin DIPs, eight 24-pin DIPSs, and thirty-six 14-or 16-pin DIPs. Alternatively, it can hold fifty-two 14- or 16-pin DIPs, or ten 40-pin DIPs and eight 24-pin DIPs, or any combination in between. Power is distributed to each DIP location by heavy copper tinned power and ground planes on opposite board sides for low impedance. Prewired regulator circuit and two heat sink provisions; one heat sink is supplied with each board. Compatible with Altair 8800 and IMSAI 8080 microcomputers. For ease in wiring, boards are identified by DIP zones as well as column and row hole designations. Shpg. wt. 1 lb. (454 gm).
977-2000 1-4.....**Each 19.95** **5-Up**.....**Each 17.96**

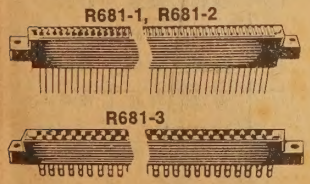
TYPE 8800VA PLUGBORD. Similar to 8800V above, but includes installed 0.025″ (0.64mm) square one-level wrap posts in each contact pad, three regulator pads, and 27 points in power and ground buses. Size: 10x5.3″ (254x 135mm). Shpg. wt. 2 lbs. (907 gm).
977-2005. 1-4.....**Each 29.95** **5-Up**.....**Each 26.96**

TYPE 8800VB PLUGBORD. Socketed version of 8800VA (above) includes the following 3-level wire-wrap tail sockets, installed and ready to wire: two 40-pin, eight 24-pin, thirty-six 16-pin. Shpg. wt. 2 lbs. (907 gm).
977Q2010. 1-9.....**Each 89.00** **10-Up**.....**Each 81.00**

TYPE 4350 PLUGBORD. 7x9.6″ (178x244mm) with 80 (40 each side) contacts on 0.125″ (3.2mm) centers. Compatible with TI 980 series computer. Will hold sixty-three 14- or 16-pin DIPs over power and ground buses, or six 24-pin plus forty-five 14- or 16-pin DIPs or 40-pin microprocessor DIPs by cutting one etched jumper per location. Heavy, back-to-back tinned copper buses provide distributed decoupling capacitance.
977-1700. 1-9.....**Each 19.45** **10-Up**.....**Each 14.36**

CARD RECEPTACLES FOR S-100 SYSTEMS





Each receptacle has 100 gold over nickel plated contacts, spaced 0.125″ (3.2mm) with polarizing key. Phenolic or polyester insulator material. Av. shpg. wt. 3 oz.

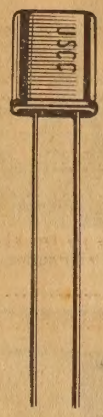
Type R681 Receptacle. Dip solder tails with rows spaced 0.140″ (3.6mm) apart. Fits Altair motherboards.
977-0845. 1-9.....**Each 12.00**
10-Up.....**Each 7.35**

Type R681-1. Has 0.62″ long (157mm), 0.25″ (0.6mm) square post tails; in rows .250″ (6.4mm) apart.
977-0850. 1-9.....**Each 11.50**
10-Up.....**Each 7.35**

Type R681-2 Receptacle. 0.22″ (5.6mm) long, .025″ (0.6mm) square post tails in rows spaced 0.250″ (6.4mm) apart. Designed for wrapping or dip soldering onto S-100 motherboards, such as Type 8803 (listed above).
977-0855. 1-9.....**Each 11.65**
10-Up.....**Each 6.20**

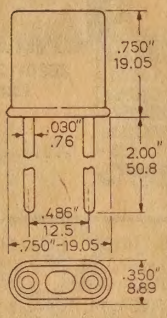
Type R681-3 Receptacle. Has solder eyelet tails with rows spaced 0.250″ (6.4mm) apart. One-hundred 0.125″ (3.2mm) spaced contacts, gold over nickel plated.
977-0860. 1-9.....**Each 11.65**
10-Up.....**Each 6.20**

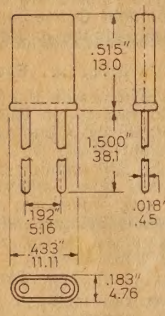
Microprocessor Crystals and Power Supplies



NEW!

HC33/U



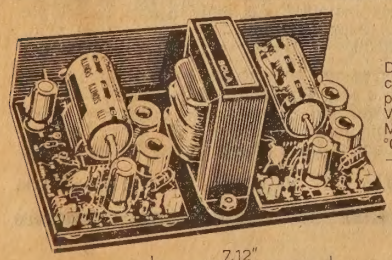


HC18/U

MICROPROCESSOR CRYSTALS

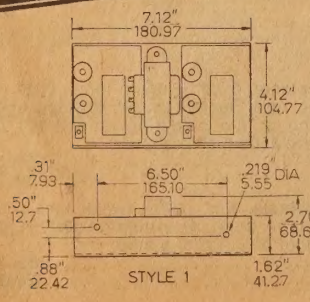
Off-the-shelf convenience with a full range of time base crystals for work with microprocessors. 34 frequencies ranging from 1 to 48 MHz, all frequencies currently in widespread use for TV games, toys and precision industrial or commercial applications. Meets rigid specifications for close tolerances, accuracy and lower resistance. Crystals are aged for long life stability even in adverse temperature, vibration and corrosive environments. Tolerance: ±.002%.

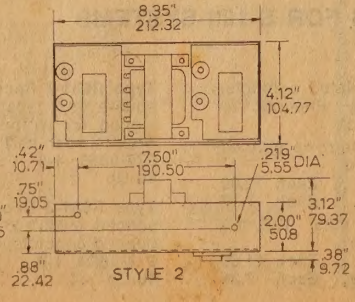
Stock No.	Mfr's Type	Freq. MHz	Microprocessor	EACH 1-9	10-24	25-49	50-Up
994-0005	HC33/U	1.0000	6800/S6860	7.75	6.65	6.05	5.45
994-0010	HC33/U	1.8432	MC/4411	7.75	6.65	6.05	5.45
994-0015	HC33/U	2.0000	F-8/CPU 3850	6.88	5.90	5.45	4.95
994-0020	HC33/U	2.0100	G.I. AY3-8500	6.88	5.90	5.45	4.95
994-0025	HC33/U	2.097152	MM5378/MM5379	6.88	5.90	5.45	4.95
994-0030	HC33/U	2.4576	34702	6.88	5.90	5.45	4.95
994-0035	HC33/U	2.667	Pace	6.88	5.90	5.45	4.95
994-0040	HC33/U	3.000	MCS48	6.88	5.90	5.45	4.95
994-0045	HC33/U	3.200	RCA1803	6.88	5.90	5.45	4.95
994-0050	HC33/U	3.2768	Intersil ICM7205	6.88	5.90	5.45	4.95
994-0055	HC33/U	3.5795	NSC MM5369	6.88	5.90	5.45	4.95
994-0060	HC18/U	4.0000	4040/4004/4201 Pace	4.90	4.35	4.00	3.80
994-0065	HC18/U	4.1943	Intersil ICM7038A	4.90	4.35	4.00	3.80
994-0070	HC18/U	4.9152	Std. Clock Freq.	4.90	4.35	4.00	3.80
994-0075	HC18/U	5.000	Several MPU's	4.90	4.35	4.00	3.80
994-0080	HC18/U	5.0688	Com 5016/Com 5016T	4.90	4.35	4.00	3.80
994-0085	HC18/U	5.1850	4040/4004/4201	4.90	4.35	4.00	3.80
994-0090	HC18/U	5.7143	Pace NFC	4.90	4.35	4.00	3.80
994-0095	HC18/U	6.000	MCS48	4.90	4.35	4.00	3.80
994-0100	HC18/U	6.144	Intel 8085	4.90	4.35	4.00	3.80
994-0105	HC18/U	6.400	RCA 1803	4.90	4.35	4.00	3.80
994-0110	HC18/U	6.5536	Intersil ICM7045	4.90	4.35	4.00	3.80
994-0115	HC18/U	8.0000	Signetics	4.90	4.35	4.00	3.80
994-0120	HC18/U	10.000	Several MPU's	4.13	3.65	3.25	3.00
994-0125	HC18/U	14.318	Several MPU's	4.13	3.65	3.25	3.00
994-0130	HC18/U	14.391	Several MPU's	4.13	3.65	3.25	3.00
994-0135	HC18/U	18.000	8080/8008/8224	4.13	3.65	3.25	3.00
994-0140	HC18/U	18.4320	8080/8008/8224	4.13	3.65	3.25	3.00
994-0145	HC18/U	20.0000	Several MPU's	4.13	3.65	3.25	3.00
994-0150	HC18/U	22.1184	8080A	4.13	3.65	3.25	3.00
994-0155	HC18/U	27.0000	Intel 8080A	4.13	3.65	3.25	3.00
994-0160	HC18/U	32.0000	Several MPU's	4.13	3.65	3.25	3.00
994-0165	HC18/U	36.0000	Intel 8080A	4.13	3.65	3.25	3.00
994-0170	HC18/U	48.0000	T.I. Mod Tim9904 P.N. SNLS 362	4.13	3.65	3.25	3.00



MICROPROCESSOR POWER SUPPLIES

Designed for both bench and rack use. Vertical or horizontal mounting. Isolated independent outputs for either positive or negative operation. Integrated circuit regulation. Remote sensing / programming and reverse voltage protection. Series or parallel operation. Convection cooled. Short circuit protected; automatic current limiting. Constant voltage. Recovery time is less than 50 Microseconds ½L to FL. Input voltage range: 104-127 / 208-254 VAC; Input freq. range: 50-400Hz; Regulation line and load combined: 0.1%; Output ripple: 0.05% RMS (10MHz Band Width); Input/Output isolation: 1000 Megohms D.C., 2500 VAC; Temp. coefficient: 0.01/°C; Operating Temp.: 0°C to +55°C without Derating, −20°C to +80°C with Performance Derating.





Stock No.	Mfr's Type	Output Voltage	Output Current	Chassis Style	EACH 1-4	5-9	10-Up
921-8200	83-81-2225	+5V 9 to 12V	2.5A 0.5A	1	60.87	50.35	47.15
921-8210	83-82-2230	+5V −5V	3A 0.1A	1	60.87	50.35	47.15
921-8220	83-81-2250	+5V 9 to 12V	5A 0.8A	2	108.22	89.55	83.85
921-8240	83-83-3225	+5V +9 to 12V −9 to −12V	2.5A .25A .25A	1	94.77	78.40	73.40
921-8260	83-83-3250	+5V +9 to +12V −9 to −12V	5A 0.5A 0.5A	2	120.32	99.60	93.25

See Crystal Socket Listing on Page 28

Solid-State Devices Index & Cross-References

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MICROCOMPUTER COMPONENTS

Stock No.	Page No.	NEC	INTEL	NAT'L	SIGNETICS	T.I.
869-8080	4, 5	μPD8080AFC	8080A	INS8080A	MP8080A	TMS8080A
869-5101	4, 5	μPD5101C-E	5101	MM74C920	.....	.....
869-2101	4, 5	μPD2101AL-4	2101	MM2101	2101/2601	TMS4039
869-2102	4, 5	μPD2102AL-4	2102	MM2102	2102/2602	TMS4038
869-2111	4, 5	μPD2111AL-4	2111	MM2111	2111/2611	TMS4042
869-0411	4, 5	μPD411AC	2107B	MM5280	2604	TMS4060
869-8251	4, 5	μPD8251C	8251	INS8251	.....	.....
869-8255	4, 5	μPD8255C	8255	INS8255	.....	.....

RECTIFIERS

Stock No.	Page No.	Varo Semi.	General Instru.	Motor-ola	Soli-tron	Semi-tech	Uni-trode	EDI	Tung-sol	Int'l. Rect.	Westing-house	AFI	Syntron
976-0550	19	VK048	KBH25005	MDA990-1	J775-0	SCBA05	....	PB05	B10Z	250JB05P	MB12A25V05	25AF050	.....
976-0555	19	VK148	KBH2502	MDA990-2	J775-1	SCBA1	679-1	PB10	B10A	250JB1P	MB12A25V10	25AF100	EMF1B1 HEMF1B1
976-0560	19	VK248	KBH2502	MDA990-3	J775-2	SCBA2	679-2	PB20	B10B	250JB2P	MB12A25V20	25AF200	EMF2B1 HEMF2B1
976-0565	19	VK448	KBH2504	MDA990-5	J775-4	SCBA4	679-4	PB40	B10D	250JB4P	MB12A25V40	25AF400	EMF4B1 HEMF4B1
976-0570	19	VK648	KBH2506	MDA990-6	J775-6	SCBA6	679-6	PB60	B10F	250JB6P	MB12A25V60	25AF600	EMF6B1 HEMF6B1
976-0575	19	VK848	KBH2508	.....	J775-8	.....	679-8	PB80	B10H	250JB8P	MB12A25V80	25AF800	EMF8B1 HEMF8B1
976-0590	19	VK1048	KBH2510	.....	J77-10	.....	....	PB100	B10K	.....	MB12A25W10	25AF1000	EMF10B1 HEMF10B1

Stock No.	Page No.	Varo Semi.	JEDEC	Motor-ola	General Electric	Semi-con	EDI	General Instru.
976-0500	19	V350	1N4139 1N5400	.....	.....	S3A05	HAB5	P300A
976-0505	19	V351	1N4140 1N5401	MR501	A15A	S3A1	HAB10	P300B
976-0510	19	V352	1N4142 1N5402	MR502	A15B	S3AZ	HAB20	P300D
976-0515	19	V354	1N4142 1N5404	MR504	A15C	S3A4	HAB40	P300F, G
976-0520	19	V356	1N4143 1N5406	MR506	A15E	S3A6	HAB60	P300H, J
976-0525	19	V358	1N4144 1N5407	MR508	.....	S3A8	HAB80	P300K
976-0530	19	V3510	1N4145 1N5408	MR510	.....	S3A10	HAB100	P300M

CMOS CROSS-REFERENCE

ALL Fairchild CMOS Types Have Buffered Output—"A" Versions in Table Below Do Not

Stock No.	Page No.	Fair-child New #	RCA Series A & B	Motorola	National	Solitron	Harris	Texas Instru.	Signetics
569-3401	16	4001PC	CD4001A	MC14001A	CD4001A	CM4001A	HD4001A	TP4001A	4001A
569-3402	16	4002PC	CD4002A	MC14002A	CD4002A	CM4002A	HD4002A	TP4002A	4002A
569-3406	16	4006PC	CD4006A	MC14006A	CD4006A	CM4006A	HD4006A	TP4006A	4006A
569-3407	16	4007PC	CD4007A	MC14007A	CD4007A	CM4007A	HD4007A	TP4007A	4007A
569-3408	16	4008PC	CD4008A	MC14008A	.....	CM4008A	HD4008A	TP4008A	4008A
569-3411	16	4011PC	CD4011A	MC14011A	CD4011A	CM4011A	HD4011A	TP4011A	4011A
569-3412	16	4012PC	CD4012A	MC14012A	CD4012A	CM4012A	HD4012A	TP4012A	4012A
569-3413	16	4013PC	CD4013A	MC14013A	CD4013A	CM4013A	HD4013A	TP4013A	4013A
569-3414	16	4014PC	CD4014A	MC14014A	CD4014A	CM4014A	HD4014A	TP4014A	4014A
569-3415	16	4015PC	CD4015A	MC14015A	CD4015A	CM4015A	HD4015A	TP4015A	4015A
569-3416	16	4016PC	CD4016A	MC14016A	CD4016A	CM4016A	.....	TP4016A	4016A
569-3417	16	4017PC	CD4017A	MC14017A	CD4017A	CM4017A	HD4017A	TP4017A	4017A
569-3418	16	4018PC	CD4018A	.....	CD4018A	CM4018A	HD4018A	TP4018A	4018A
569-3419	16	4019PC	CD4019A	.....	CD4019A	CM4019A	HD4019A	TP4019A	4019A
569-3420	16	4020PC	CD4020A	MC14020A	CD4020A	CM4020A	HD4020A	TP4020A	4020A
569-3421	16	4021PC	CD4021A	MC14021A	CD4021A	CM4021A	HD4021A	TP4021A	4021A
569-3422	16	4022PC	CD4022A	MC14022A	CD4022A	CM4022A	HD4022A	TP4022A	4022A
569-3423	16	4023PC	CD4023A	MC14023A	CD4023A	CM4023A	HD4023A	TP4023A	4023A
569-3424	16	4024PC	CD4024A	MC14024A	CD4024A	CM4024A	HD4024A	TP4024A	4024A
569-3425	16	4025PC	CD4025A	MC14025A	CD4025A	CM4025A	HD4025A	TP4025A	4025A
569-3427	16	4027PC	CD4027A	MC14027A	CD4027A	.....	HD4027A	TP4027A	4027A
569-3428	16	4028PC	CD4028A	MC14028A	CD4028A	.....	HD4028A	TP4028A	4028A
569-3429	16	4029PC	CD4029A	.....	CD4029A	.....	HD4029A	TP4029A	4029A
569-3430	16	4030PC	CD4030A	.....	CD4030A	.....	HD4030A	TP4030A	4030A
569-3431	16	4031PC	CD4031A	.....	CD4031A	.....	.....	.....	.....
569-3435	16	4035PC	CD4035A	MC14035A	CD4035A	.....	HD4035A	TP4035A	4035A
569-3440	16	4040PC	CD4040A	MC14040A	CD4040A	.....	HD4040A	TP4040A	4040A
569-3441	16	4041PC	CD4041A	.....	.....	CM4041A	.....	TP4041A	4041A
569-3442	16	4042PC	CD4042A	MC14042A	CD4042A	.....	HD4042A	TP4042A	4042A
569-3443	16	4043PC	CD4043A	.....	CD4043A	CM4043A	HD4043A	TP4043A	4043A
569-3444	16	4044PC	CD4044A	.....	CD4044A	CM4044A	HD4044A	TP4044A	4044A
569-3446	16	4046PC	CD4046A	MC14046A	.....	.....	.....	.....	.....
569-3447	16	4047PC	CD4047A	.....	.....	CM4047A	.....	.....	.....
569-3449	16	4049PC	CD4049A	MC14049A	CD4049A	.....	HD4049A	TP4049A	4049A
569-3450	16	4050PC	CD4050A	MC14050A	CD4050A	.....	HD4050A	TP4050A	4050A
569-3451	16	4051PC	CD4051A	.....	CD4051A	.....	.....	TP4051A	4051A
569-3452	16	4052PC	CD4052A	.....	CD4052A	.....	.....	TP4052A	4052A
569-3453	16	4053PC	CD4053A	MC14053A	CD4053A	.....	HD4053A	TP4053A	4053A
569-3466	16	4066PC	CD4066A	.....	CD4066A	.....	HD4066A	.....	4066A

Stock No.	Page No.	Fair-child New #	RCA Series A & B	Motorola	National	Solitron	Harris	Texas Instru.	Signetics
569-3467	16	4067PC	CD4067A	.....	.....	.....	.....	.....	.....
569-3468	16	4068PC	CD4068B	.....	.....	.....	.....	.....	4068B
569-3469	16	4069PC	CD4069B	.....	CD4069B	.....	.....	.....	4069B
569-3470	16	4070PC	CD4070B	MC14507	CD4070B	.....	.....	.....	.....
569-3471	16	4071PC	CD4071B	.....	.....	.....	.....	.....	4071B
569-3472	16	4072PC	CD4072B	.....	.....	.....	.....	.....	4072B
569-3473	16	4073PC	CD4073B	.....	.....	.....	.....	.....	4073B
569-3475	16	4075PC	CD4075B	.....	.....	.....	.....	.....	4075B
569-3476	16	4076PC	CD4076B	MC14076B	CD4076B	.....	.....	.....	.....
569-3477	16	4077PC	CD4077B	.....	.....	.....	.....	HD4077B	.....
569-3478	16	4078PC	CD4078B	.....	.....	.....	.....	.....	4078B

VOLTAGE REGULATORS

Stock No.	Page No.	FAIRCHILD	MOTOROLA	NATIONAL	SIGNETICS	TEXAS INSTRU.
569-2800	15	UA7805UC	MC7805CP	LM340T-5	7805CU	UA7805CKC
569-2810	15	UA7806UC	MC7806CP	LM340T-6	7806CU	UA7806CKC
569-2820	15	UA7808UC	MC7808CP	LM340T-8	7808CU	UA7808CKC
569-2830	15	UA7812UC	MC7812CP	LM340T-12	7812CU	UA7812CKC
569-2840	15	UA7815UC	MC7815CP	LM340T-15	7815CU	UA7815CKC
569-2850	15	UA7824UC	MC7824CP	LM340T-24	7824CU	UA7824CKC
569-2735	15	UA78L05AWC	.....	.....	78L05AS	UA78L05ACLP
569-2740	15	UA78L12AWC	.....	.....	78L12AS	UA78L12ACLP
569-2750	15	UA78M05UC	MC78M05CP	.....	78M05CU	UA78M05CKC
569-2755	15	UA78M06UC	MC78M06CP	.....	78M06CU	UA78M06CKC
569-2780	15	UA78M12UC	MC78M12CP	.....	78M12CU	UA78M12CKC
569-2860	15	UA7905UC	MC7905CP	LM320T-5	.....	UA7905CKC
569-2870	15	UA7912UC	MC7912CP	LM320T-12	.....	UA7912CKC
569-2880	15	UA7915UC	MC7915CP	LM320T-15	.....	UA7915CKC
569-2890	15	UA7924UC	MC7924CP	LM320T-24	.....	UA7924UC

See Page 2 for the Allied Electronics Facility Nearest You

DISCRETE DEVICES DIRECTORY

TRANSISTORS, DIODES, RECTIFIERS AND ASSOCIATED DEVICES

Dissipation is listed at 25°C ambient; on high power devices designated by "C" the rating is listed for case temperature of 25 C. Temperature-compensated zeners list two sets of figures in the tolerance column. The first gives the % of voltage change for each °C of temperature change; the second, zener voltage tolerance. In the transistor section under HFE † indicates an Alpha value. Under the fT column, the matching tolerance for the differential amplifier pair is given at % † at the current under the HFE mA column. No listing under collector current is limited by dissipation of the device. No listing under fT usually fT below 50 KHz. In material and function column, the first letter indicates type of material (S=Silicon; G=Germanium; SL=Selenium); second letter indicates polarity, if any. (N=NPN, P=PNP); succeeding letters indicate function (see table).

FUNCTION ABBREVIATIONS

AA	Amplifier Audio	FE	Field Effect	Rect	Rectifier
AD	Amplifier Differential	FRR	Fast Recovery Rectifier	SCR	Silicon Controlled Rectifier
AH	Amplifier High Frequency	FS	Fast Switch	SG	Sensitive Gate
		GP	General Purpose	SH	Switch High Speed
AP	Amplifier Power	HCD	High Speed Computer Diode	SM	Switch Medium Speed
AR	Amplifier Radio Low Frequency	IF	Insulated Gate FET	SP	Switch Power
AU	Amplifier UHF	LN	Low Noise Amplifier	SS	Small Signal
AV	Amplifier VHF	PT	Power Transistor	TRIAC	Bi-Directional Thyristor
CD	Computer Diode	Rec-B	Rectifier Bridge	UJ	Unijunction
DA	Darlington Amplifier	Rec-D	Rectifier Doubler	Zen	Zener
DC	Dual Chopper	Rec-F	Fast Recovery Rectifier	ZTC	Zener Temperature Compensated
DT	Dual Transistor	Rec-T	Rectifier Tripler		

SUBSTITUTIONS. Allied Electronics reserves the right to substitute, if necessary, an identical device of another manufacturer for the brand requested.

ERRORS. The information presented here has been thoroughly checked for its accuracy. However, Allied Electronics will not be liable for any inaccuracies, should they occur.

Stock No.	Type	Case	Material Function	Specs.		EACH
578R0034	1N34A	DO-7	GSS	5mA	50PIV	.40
577-0060	1N60	DO-7	GSS	5mA	40PIV	.40
580-1000	1N248	DO-5	S Rect	10A	50PIV	1.90
580-1002	1N248A	DO-5	S Rect	37A	50PIV	1.90
580-1004	1N248B	DO-5	S Rect	37A	50PIV	1.90
580-1006	1N248C	DO-5	S Rect	20A	55PIV	1.90
580-1008	1N249	DO-5	S Rect	10A	100PIV	2.34
580-1010	1N249A	DO-5	S Rect	37A	100PIV	2.34
580-1012	1N249B	DO-5	S Rect	37A	100PIV	2.34
580-1014	1N249C	DO-5	S Rect	20A	110PIV	2.34
580-1016	1N250	DO-5	S Rect	10A	200PIV	2.86
580-1018	1N250A	DO-5	S Rect	37A	200PIV	2.86
580-1020	1N250B	DO-5	S Rect	37A	200PIV	2.86
580-1022	1N250C	DO-5	S Rect	20A	220PIV	2.86
580-1024	1N253	DO-4	S Rect	1A	95PIV	1.38
580-1026	1N254	DO-4	S Rect	.4A	190PIV	2.49
580-1028	1N255	DO-4	S Rect	.4A	380PIV	4.78
580-1030	1N256	DO-4	S Rect	.2A	570PIV	6.75
580-1032	1N256R	DO-4	S Rect	.2A	570PIV	6.75
580-1034	1N332	DO-4	S Rect	.4A	400PIV	4.78
580-1036	1N333	DO-4	S Rect	.2A	400PIV	4.78
580-1038	1N334	DO-4	S Rect	.4A	300PIV	3.59
580-1040	1N335	DO-4	S Rect	.2A	300PIV	3.59
580-1042	1N336	DO-4	S Rect	.4A	200PIV	2.49
580-1044	1N337	DO-4	S Rect	.2A	200PIV	2.49
580-1046	1N338	DO-4	S Rect	1A	100PIV	1.40
580-1048	1N339	DO-4	S Rect	.4A	100PIV	1.40
580-1050	1N340	DO-4	S Rect	.2A	100PIV	1.40
580-1052	1N341	DO-4	S Rect	.4A	400PIV	4.78
580-1054	1N342	DO-4	S Rect	.2A	400PIV	4.78
580-1056	1N343	DO-4	S Rect	.4A	300PIV	3.59
580-1058	1N344	DO-4	S Rect	.2A	300PIV	3.59
580-1060	1N345	DO-4	S Rect	.4A	200PIV	2.49
580-1062	1N346	DO-4	S Rect	.2A	200PIV	2.49
580-1064	1N347	DO-4	S Rect	1A	100PIV	1.40
580-1066	1N348	DO-4	S Rect	.4A	100PIV	1.40
580-1068	1N349	DO-4	S Rect	.2A	100PIV	1.40
580-1070	1N349R	DO-4	S Rect	.2A	100PIV	1.40
552-0456	1N456A	DO-7	SGP	100mA	30PIV	.36
552-0457	1N457A	DO-7	SGP	100mA	70PIV	.37
552-0458	1N458A	DO-7	SGP	100mA	150PIV	.38
552-0459	1N459A	DO-7	SGP	100mA	200PIV	.39
580-1072	1N550	DO-4	S Rect	.5A	100PIV	1.40
580-1074	1N551	DO-4	S Rect	.5A	200PIV	2.49
580-1076	1N552	DO-4	S Rect	.5A	300PIV	3.59
580-1078	1N553	DO-4	S Rect	.5A	400PIV	4.78
580-1080	1N554	DO-4	S Rect	.5A	500PIV	5.67
580-1082	1N555	DO-4	S Rect	.5A	600PIV	6.75
580-1084	1N562	DO-4	S Rect	.4A	800PIV	9.13
580-1086	1N563	DO-4	S Rect	.4A	1000PIV	12.47
580-1088	1N607A	DO-4	S Rect	.8A	50PIV	1.40
580-1090	1N608A	DO-4	S Rect	.8A	100PIV	1.40
580-1092	1N609A	DO-4	S Rect	.8A	150PIV	2.49
580-1094	1N610A	DO-4	S Rect	.8A	200PIV	2.49
580-1096	1N611A	DO-4	S Rect	.8A	300PIV	3.59
580-1098	1N612A	DO-4	S Rect	.8A	400PIV	4.78
580-1100	1N613A	DO-4	S Rect	.8A	500PIV	5.67
580-1102	1N614A	DO-4	S Rect	.8A	600PIV	6.75
551-0659	1N659	DO-7	SCD	6mA	60V	.37
551-0661	1N661	DO-7	SCD	7mA	240V	.39
640-0746	1N746A	DO-7	S Zen	3.3V	400mW	.80
640-0748	1N748A	DO-7	S Zen	3.9V	400mW	.80
640-0750	1N750A	DO-7	S Zen	4.7V	400mW	.80
640-0751	1N751A	DO-7	S Zen	5.1V	400mW	.80
640-0752	1N752A	DO-7	S Zen	5.6V	400mW	.80
640-0753	1N753A	DO-7	S Zen	6.2V	400mW	.80
640-0754	1N754A	DO-7	S Zen	6.8V	400mW	.80
640-0755	1N755A	DO-7	S Zen	7.5V	400mW	.80
640-0756	1N756A	DO-7	S Zen	8.2V	400mW	.80
640-0758	1N758A	DO-7	S Zen	10V	400mW	.80
640-0759	1N759A	DO-7	S Zen	12V	400mW	.80
578-0823	1N823A	DO-7	S ZTC	6.2V	400mW	2.90
578-0825	1N825A	DO-7	S ZTC	6.2V	400mW	4.40
551R0914	1N914	DO-35	SCD	10 mA	100V	.26
552R0914	1N914B	DO-35	SCD	100mA	100V	.26
578-0936	1N936B	DO-7	S ZTC	9V	500mW	3.25
577-0938	1N938B	DO-7	S ZTC	9V	500mW	4.76
640-0957	1N957B	DO-7	S Zen	6.8V	400mW	.90
640-0961	1N961B	DO-7	S Zen	10V	400mW	.90
640-0962	1N962B	DO-7	S Zen	11V	400mW	.90
640-0963	1N963B	DO-7	S Zen	12V	400mW	.90
640-0964	1N964B	DO-7	S Zen	13V	400mW	.90
640-0965	1N965B	DO-7	S Zen	15V	400mW	.90
640-0967	1N967B	DO-7	S Zen	18V	400mW	.90
640-0968	1N968B	DO-7	S Zen	20V	400mW	.90
640-0969	1N969B	DO-7	S Zen	22V	400mW	.90
640-0971	1N971B	DO-7	S Zen	27V	400mW	.90
640-0973	1N973B	DO-7	S Zen	33V	400mW	.90
577-1084	1N1084	SP-1	S Rect	.5A	400PIV	1.43
580-1104	1N1115	DO-4	S Rect	1.5A	100PIV	1.40
580-1106	1N1116	DO-4	S Rect	1.5A	200PIV	2.49
580-1108	1N1117	DO-4	S Rect	1.5A	300PIV	3.59
580-1110	1N1118	DO-4	S Rect	1.5A	400PIV	4.78
580-1112	1N1119	DO-4	S Rect	1.5A	500PIV	5.67
580-1114	1N1120	DO-4	S Rect	1.5A	600PIV	6.75
580-1116	1N1124	DO-4	S Rect	3A	200PIV	2.49
580-1118	1N1124R	DO-4	S Rect	3A	200PIV	2.49
580-1120	1N1124A	DO-4	S Rect	3.3A	250PIV	2.49
580-1122	1N1124RA	DO-4	S Rect	3.3A	250PIV	2.49
580-1124	1N1125	DO-4	S Rect	3.3A	300PIV	3.59
580-1126	1N1125R	DO-4	S Rect	3.3A	300PIV	3.59
580-1128	1N1125A	DO-4	S Rect	3.3A	300PIV	3.59
580-1130	1N1125RA	DO-4	S Rect	3.3A	300PIV	3.59
580-1132	1N1126	DO-4	S Rect	3A	400PIV	4.78
580-1134	1N1126R	DO-4	S Rect	3A	400PIV	4.78
580-1136	1N1126A	DO-4	S Rect	3.3A	500PIV	4.78
580-1138	1N1126RA	DO-4	S Rect	3.3A	500PIV	4.78
580-1140	1N1127	DO-4	S Rect	3A	500PIV	5.67
580-1142	1N1127R	DO-4	S Rect	3A	500PIV	5.67
580-1144	1N1127A	DO-4	S Rect	3.3A	500PIV	5.67
580-1146	1N1127RA	DO-4	S Rect	3.3A	500PIV	5.67
580-1148	1N1128	DO-4	S Rect	3A	600PIV	6.75
580-1150	1N1128R	DO-4	S Rect	3A	600PIV	6.75
580-1152	1N1128A	DO-4	S Rect	3.3A	750PIV	6.75
580-1154	1N1128RA	DO-4	S Rect	3.3A	750PIV	6.75
580-1156	1N1183	DO-5	S Rect	35A	50PIV	2.26
580-1158	1N1183A	DO-5	S Rect	40A	50PIV	3.26
580-1160	1N1183R	DO-5	S Rect	35A	50PIV	2.26
580-1162	1N1183RA	DO-5	S Rect	40A	50PIV	3.26
580-1164	1N1184	DO-5	S Rect	35A	100PIV	2.77
580-1166	1N1184A	DO-5	S Rect	40A	100PIV	3.42
580-1168	1N1184R	DO-5	S Rect	35A	100PIV	2.77
580-1170	1N1184RA	DO-5	S Rect	40A	100PIV	3.42
580-1172	1N1185	DO-5	S Rect	35A	150PIV	3.36
580-1174	1N1185A	DO-5	S Rect	40A	150PIV	3.83
580-1176	1N1185R	DO-5	S Rect	35A	150PIV	3.36
580-1178	1N1185RA	DO-5	S Rect	40A	150PIV	3.83
580-1180	1N1186	DO-5	S Rect	35A	200PIV	3.93
580-1202	1N1186A	DO-5	S Rect	40A	200PIV	4.05
580-1204	1N1186R	DO-5	S Rect	35A	200PIV	3.93
580-1206	1N1186RA	DO-5	S Rect	40A	200PIV	4.05
580-1208	1N1187	DO-5	S Rect	35A	300PIV	4.76
580-1210	1N1187A	DO-5	S Rect	40A	300PIV	4.73
580-1212	1N1187R	DO-5	S Rect	35A	300PIV	4.76
580-1214	1N1187RA	DO-5	S Rect	40A	300PIV	4.73
580-1216	1N1188	DO-5	S Rect	35A	400PIV	6.33
580-1218	1N1188A	DO-5	S Rect	40A	400PIV	6.71
580-1220	1N1188R	DO-5	S Rect	35A	400PIV	6.33
580-1222	1N1188RA	DO-5	S Rect	40A	400PIV	6.71
580-1224	1N1189	DO-5	S Rect	35A	500PIV	6.93
580-1226	1N1189A	DO-5	S Rect	40A	500PIV	8.03
580-1228	1N1189R	DO-5	S Rect	35A	500PIV	6.93
580-1230	1N1189RA	DO-5	S Rect	40A	500PIV	8.03
580-1232	1N1190	DO-5	S Rect	35A	600PIV	7.54
580-1234	1N1190A	DO-5	S Rect	40A	600PIV	9.41
580-1236	1N1190R	DO-5	S Rect	35A	600PIV	7.54
580-1238	1N1190RA	DO-5	S Rect	40A	600PIV	9.41
580-1240	1N1191	DO-5	S Rect	18A	50PIV	2.09
580-1242	1N1191R	DO-5	S Rect	18A	50PIV	2.09
580-1244	1N1192	DO-5	S Rect	18A	100PIV	2.53
580-1246	1N1192R	DO-5	S Rect	18A	100PIV	2.53
580-1248	1N1193	DO-5	S Rect	18A	150PIV	3.05
580-1250	1N1193R	DO-5	S Rect	18A	150PIV	3.05
580-1252	1N1194	DO-5	S Rect	18A	200PIV	3.14
580-1254	1N1194R	DO-5	S Rect	18A	200PIV	3.14
580-1256	1N1195	DO-5	S Rect	18A	300PIV	4.16
580-1258	1N1195R	DO-5	S Rect	18A	300PIV	4.16
580-1260	1N1196	DO-5	S Rect	18A	400PIV	5.17
580-1262	1N1196R	DO-5	S Rect	18A	400PIV	5.17
580-1264	1N1197	DO-5	S Rect	18A	500PIV	6.27
580-1266	1N1197R	DO-5	S Rect	18A	500PIV	6.27
580-1268	1N1198	DO-5	S Rect	18A	600PIV	6.93
580-1270	1N1198R	DO-5	S Rect	18A	600PIV	6.93
580-1272	1N1199A	DO-4	S Rect	12A	50PIV	1.10
580-1274	1N1199R	DO-4	S Rect	12A	50PIV	1.10
580-1276	1N1199RA	DO-4	S Rect	12A	50PIV	1.10
580-1280	1N1200	DO-4	S Rect	12A	100PIV	1.25
580-1282	1N1200A	DO-4	S Rect	12A	100PIV	1.25
580-1288	1N1200B	DO-4	S Rect	12A	100PIV	1.31
580-1284	1N1200R	DO-4	S Rect	12A	100PIV	1.25
580-1286	1N1200RA	DO-4	S Rect	12A	100PIV	1.25
580-1290	1N1200RB	DO-4	S Rect	12A	100PIV	1.31
580-1292	1N1201A	DO-4	S Rect	12A	150PIV	1.50
580-1298	1N1201B	DO-4	S Rect	12A	150PIV	1.58
580-1294	1N1201R	DO-4	S Rect	12A	150PIV	1.50
580-1296	1N1201RA	DO-4	S Rect	12A	150PIV	1.50
580-1300	1N1201RB	DO-4	S Rect	12A	150PIV	1.58
580-1302	1N1202A	DO-4	S Rect	12A	200PIV	1.77
580-1308	1N1202B	DO-4	S Rect	12A	200PIV	1.86
580-1304	1N1202R	DO-4	S Rect	12A	200PIV	1.77
580-1306	1N1202RA	DO-4	S Rect	12A	200PIV	1.77
580-1310	1N1202RB	DO-4	S Rect	12A	200PIV	1.86
580-1312	1N1203A	DO-4	S Rect	12A	300PIV	1.82
580-1318	1N1203B	DO-4	S Rect	12A	300PIV	1.91
580-1314	1N1203R	DO-4	S Rect	12A	300PIV	1.82
580-1316	1N1203RA	DO-4	S Rect	12A	300PIV	1.82
580-1320	1N1203RB	DO-4	S Rect	12A	300PIV	1.91
580-1322	1N1204A	DO-4	S Rect	12A	400PIV	1.86
580-1328	1N1204B	DO-4	S Rect	12A	400PIV	1.95
580-1324	1N1204R	DO-4	S Rect	12A	400PIV	1.86
580-1326	1N1204RA	DO-4	S Rect	12A	400PIV	1.86
580-1330	1N1204RB	DO-4	S Rect	12A	400PIV	1.95
580-1396	1N1205A	DO-4	S Rect	12A	500PIV	2.80
580-1398	1N1205B	DO-4	S Rect	12A	500PIV	2.94
580-1400	1N1205R	DO-4	S Rect	12A	500PIV	2.80
580-1402	1N1205RA	DO-4	S Rect	12A	500PIV	2.80
580-1404	1N1205RB	DO-4	S Rect	12A	500PIV	2.94
580-1406	1N1206A	DO-4	S Rect	12A	600PIV	3.30
580-1408	1N1206B	DO-4	S Rect	12A	600PIV	3.46
580-1410	1N1206R	DO-4	S Rect	12A	600PIV	3.30
580-1412	1N1206RA	DO-4	S Rect	12A	600PIV	3.30
580-1414	1N1206RB	DO-4	S Rect	12A	600PIV	3.46
580-1416	1N1537	DO-4	S Rect	1.6A	50PIV	1.40
580-1418	1N1538	DO-4	S Rect	1.6A	100PIV	1.40
580-1420	1N1539	DO-4	S Rect	1.6A	150PIV	2.50
580-1422	1N1540	DO-4	S Rect	1.6A	200PIV	2.50
580-1424	1N1541	DO-4	S Rect	1.6A	300PIV	3.59
580-1426	1N1542	DO-4	S Rect	1.6A	400PIV	4.68
580-1428	1N1543	DO-4	S Rect	1.6A	500PIV	5.67
580-1430	1N1544	DO-4	S Rect	1.6A	600PIV	6.75
580-1432	1N1581	DO-4	S Rect	3A	50PIV	1.40
580-1434	1N1582	DO-4	S Rect	3A	100PIV	1.40
580-1436	1N1583	DO-4	S Rect	3A	200PIV	2.50
580-1438	1N1584	DO-4	S Rect	3A	300PIV	3.59
580-1440	1N1585	DO-4	S Rect	3A	400PIV	4.68
580-1442	1N1586	DO-4	S Rect	3A	500PIV	5.67
580-1444	1N1587	DO-4	S Rect	3A	600PIV	6.75
580-1446	1N1612	DO-4	S Rect	5A	50PIV	1.40
580-1448	1N1612R	DO-4	S Rect	5A	50PIV	1.40
580-1450	1N1613	DO-4	S Rect	5A	100PIV	1.40
580-1452	1N1613R	DO-4	S Rect	5A	100PIV	1.40
580-1454	1N1614	DO-4	S Rect	5A	200PIV	2.50
580-1456	1N1614R	DO-4	S Rect	5A	200PIV	2.50
580-1458	1N1615	DO-4	S Rect	5A	400PIV	4.68
580-1460	1N1615R	DO-4	S Rect	5A	400PIV	4.68
580-1462	1N1616	DO-4	S Rect	5A	600PIV	6.75
580-1464	1N1616R	DO-4	S Rect	5A	600PIV	6.75
580-1466	1N2054	DO-9	S Rect	250A	50PIV	18.54
580-1468	1N2054R	DO-9	S Rect	250A	50PIV	18.54
580-1470	1N2055	DO-9	S Rect	250A	100PIV	19.64
580-1472	1N2055R	DO-9	S Rect	250A	100PIV	19.64
580-1474	1N2056	DO-9	S Rect	250A	150PIV	20.79
580-1476	1N2056R	DO-9	S Rect	250A	150PIV	20.79
580-1478	1N2057	DO-9	S Rect	250A	200PIV	22.39
580-1480	1N2057R	DO-9	S Rect	250A	200PIV	22.39
580-1482	1N2058	DO-9	S Rect	250A	250PIV	23.54
580-1484	1N2058R	DO-9	S Rect	250A	250PIV	23.54
580-1486	1N2059	DO-9	S Rect	250A	300PIV	25.14
580-1488	1N2059R	DO-9	S Rect	250A	300PIV	25.14
580-1470	1N2060	DO-9	S Rect	250A	350PIV	26.73
580-1472	1N2060R	DO-9	S Rect	250A	350PIV	26.73
580-1474	1N2061	DO-9	S Rect	250A	400PIV	27.89
580-1476	1N2061R	DO-9	S Rect	250A	400PIV	27.89
580-1478	1N2062	DO-9	S Rect	250A	450PIV	29.04
580-1480	1N2062R	DO-9	S Rect	250A	450PIV	29.04
580-1482	1N2063	DO-9	S Rect	250A	500PIV	30.64
580-1484	1N2063R	DO-9	S Rect	250A	500PIV	30.64
580-1486	1N2064	DO-9	S Rect	250A	600PIV	34.65

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Stock No.	Type	Case	Material Function	Specs.		EACH
580-1488	1N2064R	DO-9	S Rect	250A	600PIV	34.65
580-1490	1N2065	DO-9	S Rect	250A	700PIV	37.24
580-1492	1N2065R	DO-9	S Rect	250A	700PIV	37.24
580-1494	1N2066	DO-9	S Rect	250A	800P V	38.83
580-1496	1N2066R	DO-9	S Rect	250A	800PIV	38.83
580-1498	1N2067	DO-9	S Rect	250A	900PIV	42.02
580-1500	1N2067R	DO-9	S Rect	250A	900PIV	42.02
580-1502	1N2068	DO-9	S Rect	250A	1000PIV	44.00
580-1504	1N2068R	DO-9	S Rect	250A	1000PIV	44.00
578-2069	1N2069A	C-11	S Rect	.75A	200PIV	.34
578-2070	1N2070A	C-11	S Rect	.75A	400PIV	.37
578-2071	1N2071A	C-11	S Rect	.75A	600PIV	.47
580-1506	1N2128	DO-5	S Rect	60A	50PIV	2.59
580-1550	1N2128A	DO-5	S Rect	60A	50PIV	4.04
580-1552	1N2128RA	DO-5	S Rect	60A	50PIV	4.04
580-1508	1N2128R	DO-5	S Rect	60A	50PIV	2.59
580-1510	1N2129	DO-5	S Rect	60A	100PIV	3.28
580-1554	1N2129A	DO-5	S Rect	60A	100PIV	4.11
580-1556	1N2129RA	DO-5	S Rect	60A	100PIV	4.11
580-1512	1N2129R	DO-5	S Rect	60A	100PIV	3.28
580-1514	1N2130	DO-5	S Rect	60A	150PIV	3.55
580-1558	1N2130A	DO-5	S Rect	60A	150PIV	4.84
580-1560	1N2130RA	DO-5	S Rect	60A	150PIV	4.84
580-1516	1N2130R	DO-5	S Rect	60A	150PIV	3.55
580-1518	1N2131	DO-5	S Rect	60A	200PIV	4.07
580-1562	1N2131A	DO-5	S Rect	60A	200PIV	5.43
580-1564	1N2131RA	DO-5	S Rect	60A	200P V	5.43
580-1520	1N2131R	DO-5	S Rect	60A	200PIV	4.07
580-1522	1N2132	DO-5	S Rect	60A	250PIV	4.49
580-1566	1N2132A	DO-5	S Rect	60A	250PIV	6.02
580-1568	1N2132RA	DO-5	S Rect	60A	250PIV	6.02
580-1524	1N2132R	DO-5	S Rect	60A	250PIV	4.49
580-1526	1N2133	DO-5	S Rect	60A	300PIV	4.82
580-1570	1N2133A	DO-5	S Rect	60A	300PIV	6.60
580-1572	1N2133RA	DO-5	S Rect	60A	300PIV	6.60
580-1528	1N2133R	DO-5	S Rect	60A	300PIV	4.82
580-1530	1N2134	DO-5	S Rect	60A	350PIV	5.14
580-1574	1N2134A	DO-5	S Rect	60A	350PIV	7.19
580-1576	1N2134RA	DO-5	S Rect	60A	350PIV	7.19
580-1532	1N2134R	DO-5	S Rect	60A	350PIV	5.14
580-1534	1N2135	DO-5	S Rect	60A	400PIV	5.67
580-1578	1N2135A	DO-5	S Rect	60A	400P V	7.78
580-1580	1N2135RA	DO-5	S Rect	60A	400PIV	7.78
580-1536	1N2135R	DO-5	S Rect	60A	400PIV	5.67
580-1538	1N2136	DO-5	S Rect	60A	450PIV	6.18
580-1582	1N2136A	DO-5	S Rect	60A	450PIV	8.44
580-1584	1N2136RA	DO-5	S Rect	60A	450PIV	8.44
580-1540	1N2136R	DO-5	S Rect	60A	450PIV	6.18
580-1542	1N2137	DO-5	S Rect	60A	500PIV	6.70
580-1586	1N2137A	DO-5	S Rect	60A	500PIV	8.95
580-1588	1N2137RA	DO-5	S Rect	60A	500PIV	8.95
580-1544	1N2137R	DO-5	S Rect	60A	500PIV	6.70
580-1546	1N2138	DO-5	S Rect	60A	600PIV	7.62
580-1590	1N2138A	DO-5	S Rect	60A	600PIV	10.12
580-1592	1N2138RA	DO-5	S Rect	60A	600PIV	10.12
580-1548	1N2138R	DO-5	S Rect	60A	600PIV	7.62
580-1594	1N2154	DO-5	S Rect	25A	50PIV	2.26
580-1596	1N2154R	DO-5	S Rect	25A	50PIV	2.26
580-1598	1N2155	DO-5	S Rect	25A	100PIV	2.77
580-1600	1N2155R	DO-5	S Rect	25A	100PIV	2.77
580-1602	1N2156	DO-5	S Rect	25A	200PIV	3.93
580-1604	1N2156R	DO-5	S Rect	25A	200PIV	3.93
580-1606	1N2157	DO-5	S Rect	25A	300PIV	4.76
580-1608	1N2157R	DO-5	S Rect	25A	300PIV	4.76
580-1610	1N2158	DO-5	S Rect	25A	400PIV	6.33
580-1612	1N2158R	DO-5	S Rect	25A	400PIV	6.33
580-1614	1N2159	DO-5	S Rect	25A	500P V	6.93
580-1616	1N2159R	DO-5	S Rect	25A	500PIV	6.93
580-1618	1N2160	DO-5	S Rect	25A	600PIV	7.54
580-1620	1N2160R	DO-5	S Rect	25A	600PIV	7.54
578-2970	1N2970B	DO-4	S Zen	6.8V	10W	3.64
578-2976	1N2976B	DO-4	S Zen	12V	10W	3.64
578-2979	1N2979B	DO-4	S Zen	15V	10W	3.64
578-3020	1N3020B	DO-13	S Zen	10V	1W	2.68
578-3022	1N3022B	DO-13	S Zen	12V	1W	2.68
578-3029	1N3029B	DO-13	S Zen	24V	1W	2.68
551-3064	1N3064	DO-7	SCD	10mA	75PIV	.26
580-1628	1N3085	DO-8	S Rect	150A	100PIV	16.67
580-1630	1N3085R	DO-8	S Rect	150A	100PIV	16.67
580-1632	1N3086	DO-8	S Rect	150A	200PIV	17.93
580-1634	1N3086R	DO-8	S Rect	150A	200PIV	17.93
580-1636	1N3087	DO-8	S Rect	150A	300PIV	19.42
580-1638	1N3087R	DO-8	S Rect	150A	300PIV	19.42
580-1640	1N3088	DO-8	S Rect	150A	400P V	20.90
580-1642	1N3088R	DO-8	S Rect	150A	400P V	20.90
580-1644	1N3089	DO-8	S Rect	150A	500PIV	22.28
580-1646	1N3089R	DO-8	S Rect	150A	500PIV	22.28
580-1648	1N3090	DO-8	S Rect	150A	600PIV	24.04
580-1650	1N3090R	DO-8	S Rect	150A	600PIV	24.04
580-1652	1N3091	DO-8	S Rect	150A	800PIV	26.40
580-1654	1N3091R	DO-8	S Rect	150A	800PIV	26.40
580-1656	1N3092	DO-8	S Rect	150A	1000PIV	32.84
580-1658	1N3092R	DO-8	S Rect	150A	1000PIV	32.84
580-1660	1N3111	DO-8	S Rect	150A	50P V	11.55
580-1662	1N3111R	DO-8	S Rect	150A	50PIV	11.55
580-1664	1N3161	DO-9	S Rect	250A	50PIV	21.29
580-1666	1N3162	DO-9	S Rect	250A	100P.V	22.94
580-1668	1N3163	DO-9	S Rect	250A	150PIV	24.31
580-1670	1N3164	DO-9	S Rect	250A	200PIV	25.52
580-1672	1N3165	DO-9	S Rect	250A	250PIV	26.40
580-1674	1N3166	DO-9	S Rect	250A	300PIV	29.10
580-1676	1N3167	DO-9	S Rect	250A	350PIV	30.53
580-1678	1N3168	DO-9	S Rect	250A	400PIV	31.90
580-1680	1N3169	DO-9	S Rect	250A	450P.V	33.77
580-1682	1N3170	DO-9	S Rect	250A	500PIV	36.41
580-1684	1N3171A	DO-9	S Rect	250A	700PIV	38.72
580-1686	1N3172A	DO-9	S Rect	250A	800PIV	42.63
580-1688	1N3173A	DO-9	S Rect	250A	900PIV	44.94
580-1690	1N3174A	DO-9	S Rect	250A	1000PIV	47.69
580-1700	1N3210	DO-5	S Rect	15A	200PIV	2.15
580-1702	1N3210R	DO-5	S Rect	15A	200P V	2.15
580-1704	1N3211	DO-5	S Rect	15A	300PIV	2.70
580-1706	1N3211R	DO-5	S Rect	15A	300PIV	2.70
580-1708	1N3212	DO-5	S Rect	15A	400PIV	2.94
580-1710	1N3212R	DO-5	S Rect	15A	400PIV	2.94
580-1712	1N3213	DO-5	S Rect	15A	500P V	3.95
580-1714	1N3213R	DO-5	S Rect	15A	500P.V	3.96
580-1716	1N3214	DO-5	S Rect	15A	600PIV	4.40
580-1718	1N3214R	DO-5	S Rect	15A	600P V	4.40
580-1720	1N3288A	DO-8	S Rect	100A	100PIV	15.24
580-1722	1N3288R	DO-8	S Rect	100A	100PIV	15.24
580-1724	1N3288RA	DO-8	S Rect	100A	100PIV	15.24
580-1726	1N3289A	DO-8	S Rect	100A	200PIV	15.68
580-1728	1N3289R	DO-8	S Rect	100A	200P.V	15.68
580-1730	1N3289RA	DO-8	S Rect	100A	200PIV	15.68
580-1732	1N3290A	DO-8	S Rect	100A	300PIV	16.12
580-1734	1N3290R	DO-8	S Rect	100A	300PIV	16.12
580-1736	1N3290RA	DO-8	S Rect	100A	300PIV	16.12
580-1738	1N3291A	DO-8	S Rect	100A	400P V	17.00
580-1740	1N3291R	DO-8	S Rect	100A	400P.V	17.00
580-1742	1N3291RA	DO-8	S Rect	100A	400PIV	17.00
580-1744	1N3292A	DO-8	S Rect	100A	500PIV	18.10
580-1746	1N3292R	DO-8	S Rect	100A	500P V	18.10
580-1748	1N3292RA	DO-8	S Rect	100A	500P V	18.10
580-1750	1N3293A	DO-8	S Rect	100A	600PIV	18.81
580-1752	1N3293R	DO-8	S Rect	100A	600P V	18.81
580-1754	1N3293RA	DO-8	S Rect	100A	600PIV	18.81
580-1756	1N3294A	DO-8	S Rect	100A	800PIV	21.40
580-1758	1N3294R	DO-8	S Rect	100A	800PIV	21.40
580-1760	1N3294RA	DO-8	S Rect	100A	800PIV	21.40
580-1762	1N3295A	DO-8	S Rect	100A	1000P.V	23.38
580-1764	1N3295R	DO-8	S Rect	100A	1000PIV	23.38
580-1766	1N3295RA	DO-8	S Rect	100A	1000PIV	23.38
580-1768	1N3296A	DO-8	S Rect	100A	1200PIV	25.14
580-1770	1N3296R	DO-8	S Rect	100A	1200PIV	25.14
580-1772	1N3296RA	DO-8	S Rect	100A	1200PIV	25.14
580-1774	1N3569	DO-4	S Rect	3.5A	100PIV	1.40
580-1776	1N3570	DO-4	S Rect	3.5A	200PIV	2.50
580-1778	1N3571	DO-4	S Rect	3.5A	300PIV	3.59
580-1780	1N3572	DO-4	S Rect	3.5A	400PIV	4.58
580-1782	1N3573	DO-4	S Rect	3.5A	500PIV	5.67
580-1784	1N3574	DO-4	S Rect	3.5A	600PIV	6.75
580-1786	1N3615	DO-4	S Rect	16A	50PIV	1.80
580-1788	1N3615R	DO-4	S Rect	16A	50P.V	1.80
580-1790	1N3616	DO-4	S Rect	16A	100PIV	2.00
580-1792	1N3616R	DO-4	S Rect	16A	100P V	2.00
580-1794	1N3617	DO-4	S Rect	16A	150PIV	2.38
580-1796	1N3617R	DO-4	S Rect	16A	150PIV	2.38
580-1798	1N3618	DO-4	S Rect	16A	200PIV	2.80
580-1800	1N3618R	DO-4	S Rect	16A	200PIV	2.80
580-1802	1N3619	DO-4	S Rect	16A	300P.V	3.80
580-1804	1N3619R	DO-4	S Rect	16A	300PIV	3.80
580-1806	1N3620	DO-4	S Rect	16A	400PIV	4.60
580-1808	1N3620R	DO-4	S Rect	16A	400PIV	4.60
580-1810	1N3621	DO-4	S Rect	16A	500PIV	5.50
580-1812	1N3621R	DO-4	S Rect	16A	500PIV	5.50
580-1814	1N3622	DO-4	S Rect	16A	600PIV	6.40
580-1816	1N3622R	DO-4	S Rect	16A	600P V	6.40
580-1818	1N3623	DO-4	S Rect	16A	800PIV	7.80
580-1820	1N3623R	DO-4	S Rect	16A	800PIV	7.80
580-1822	1N3624	DO-4	S Rect	16A	1000PIV	8.80
580-1824	1N3624R	DO-4	S Rect	16A	1000PIV	8.80
580-1826	1N3649	DO-4	S Rect	3.3A	800PIV	12.83
580-1828	1N3649R	DO-4	S Rect	3.3A	800PIV	12.83
580-1830	1N3650	DO-4	S Rect	3.3A	1000PIV	15.88
580-1832	1N3650R	DO-4	S Rect	3.3A	1000PIV	15.88
580-1834	1N3670A	DO-4	S Rect	12A	700P.V	7.00
580-1836	1N3670R	DO-4	S Rect	12A	700PIV	7.00
580-1838	1N3670RA	DO-4	S Rect	12A	700PIV	7.00
580-1840	1N3671A	DO-4	S Rect	12A	800PIV	7.51
580-1842	1N3671R	DO-4	S Rect	12A	800PIV	7.51
580-1844	1N3671RA	DO-4	S Rect	12A	800PIV	7.51
580-1846	1N3672A	DO-4	S Rect	12A	900PIV	8.40
580-1848	1N3672R	DO-4	S Rect	12A	900PIV	8.40
580-1850	1N3672RA	DO-4	S Rect	12A	900PIV	8.40
580-1852	1N3673A	DO-4	S Rect	12A	1000PIV	8.80
580-1854	1N3673R	DO-4	S Rect	12A	1000PIV	8.80
580-1856	1N3673RA	DO-4	S Rect	12A	1000PIV	8.80
580-1858	1N3735	DO-9	S Rect	250A	100PIV	20.24
580-1860	1N3735R	DO-9	S Rect	250A	100PIV	20.24
580-1862	1N3736	DO-9	S Rect	250A	200PIV	22.66
580-1864	1N3736R	DO-9	S Rect	250A	200PIV	22.66
580-1866	1N3737	DO-9	S Rect	250A	300PIV	25.58
580-1868	1N3737R	DO-9	S Rect	250A	300PIV	25.58
580-1870	1N3738	DO-9	S Rect	250A	400PIV	27.83
580-1872	1N3738R	DO-9	S Rect	250A	400PIV	27.83
580-1874	1N3739	DO-9	S Rect	250A	500P V	30.20
580-1876	1N3739R	DO-9	S Rect	250A	500PIV	30.20
580-1878	1N3740	DO-9	S Rect	250A	600P V	32.62
580-1880	1N3740R	DO-9	S Rect	250A	600PIV	32.62
580-1882	1N3741	DO-9	S Rect	250A	800PIV	36.96
580-1884	1N3741R	DO-9	S Rect	250A	800PIV	36.96
580-1886	1N3742	DO-9	S Rect	250A	1000PIV	41.42
580-1888	1N3742R	DO-9	S Rect	250A	1000PIV	41.42
580-1890	1N3743	DO-9	S Rect	250A	1200PIV	46.70
580-1892	1N3743R	DO-9	S Rect	250A	1200PIV	46.70
580-1894	1N3744	DO-9	S Rect	250A	1400PIV	56.21
580-1896	1N3744R	DO-9	S Rect	250A	1400PIV	56.21
580-1898	1N3765	DO-5	S Rect	35A	700PIV	8.97
580-1900	1N3765R	DO-5	S Rect	35A	700PIV	8.97
580-1902	1N3766	DO-5	S Rect	35A	800PIV	10.18
580-1904	1N3766R	DO-5	S Rect	35A	800PIV	10.18
580-1906	1N3767	DO-5	S Rect	35A	900PIV	11.11
580-1908	1N3767R	DO-5	S Rect	35A	900PIV	11.11
580-1910	1N3768	DO-5	S Rect	35A	1000PIV	12.10
580-1912	1N3768R	DO-5	S Rect	35A	1000PIV	12.10
640-4001	1N4001	SP-43	S Rect	1A	50V	.24
640-4002	1N4002	SP-43	S Rect	1A	100V	.25
640-4003	1N4003	SP-43	S Rect	1A	200V	.26
640-4004	1N4004	SP 43	S Rect	1A	400V	.29
640-4005	1N4005	SP 43	S Rect	1A	600V	.33
640-4006	1N4006	SP-43	S Rect	1A	800V	.39
640-4007	1N4007	SP-43	S Rect	1A	1000V	.45
551-4009	1N4009	DO-7	S Zen	6.8V	250mW	.20
580-1914	1N4044	DO-9	S Rect	250A	50PIV	22.00
580-1916	1N4044R	DO-9	S Rect	250A	50PIV	22.00
580-1918	1N4045	DO-9	S Rect	250A	100PIV	23.32
580-1920	1N4045R	DO-9	S Rect	250A	100PIV	23.32
580-1922	1N4046	DO-9	S Rect	250A	150PIV	24.59
580-1924	1N4046R	DO-9	S Rect	250A	150PIV	24.59
580-1926	1N4047	DO-9	S Rect	250A	200PIV	26.07
580-1928	1N4047R	DO-9	S Rect	250A	200PIV	26.07
580-1930	1N4048	DO-9	S Rect	250A	250PIV	27.72
580-1932	1N4048R	DO-9	S Rect	250A	250PIV	27.72
580-1934	1N4049	DO-9	S Rect	250A	300PIV	30.64
580-1936	1N4049R	DO-9	S Rect	250A	300PIV	30.64
580-1938	1N4050	DO-9	S Rect	250A	400PIV	33.94
580-1940	1N4050R	DO-9	S Rect	250A	400PIV	33.94
580-1942	1N4051	DO-9	S Rect	250A	500PIV	35.86
580-1944	1N4051R	DO-9	S Rect	250A	500PIV	35.86
580-1946	1N4052	DO-9	S Rect	250A	600PIV	38.06
580-1948	1N4052R	DO-9	S Rect	250A	600PIV	38.06
580-1950	1N4053	DO-9	S Rect	250A	700PIV	41.25
580-1952	1N4053R	DO-9	S Rect	250A	700PIV	41.25
580-1954	1N4054	DO-9	S Rect	250A	800PIV	43.95
580-1956	1N4054R	DO-9	S Rect	250A	800PIV	43.95
580-1958	1N4055	DO-9	S Rect	250A	900PIV	47.03
580-1960	1N4055R	DO-9	S Rect	250A	900PIV	47.03
580-1962	1N4056	DO-9	S Rect	250A	1000PIV	50.00
580-1964	1N4056R	DO-9	S Rect	250A	1000PIV	50.00
580-1966	1N4136	DO-7	S Rect	70A	200PIV	5.83
580-1968	1N4137	DO-7	S Rect	70A	400PIV	8.37
580-1970	1N4138	DO-7	S Rect	70A	600PIV	10.98
551R4148	1N4148	DO-35	SHCD	10mA	75PIV	.26
552-4148	1N4148.AN	DO-35	SHCD	10mA	75PIV	.33
551-4149	1N4149	DO-35	SHCD	10mA	75PIV	.27
551-4154	1N4154	DO-35	SHCD	30A	25PIV	.26
577-4384	1N4384	DO-29	S Rect	1A	100PIV	.44
577-4385	1N4385	DO-29	S Rect	1A	600PIV	.36
976-0200	1N4436	SP-50	SRBR	10A	200PIV	6.93
976-0210	1N4436/F S	SP-50	SRBR	10A	200PIV	7.68
976-0220	1N4436/F/T	SP-50	SRBR	10A	200PIV	7.43
976-0230	1N4437	SP-50	SRBR	10A	400PIV	10.50
976-0240	1N4437 F S	SP-50	SRBR	10A	400PIV	9.45
976-0250	1N4437 F T	SP-50	SRBR	10A	400PIV	11.25
976-0270	1N4438/F S	SP-52	SRBR	10A	600PIV	10.43
976-0280	1N4438/F/T	SP-52	SRBR	10A	600PIV	10.33
551-4448	1N4448	DO-35	SHCD	100mA	100P V	.27
551-4454	1N4454	DO-35	SHCD	10mA	100P.V	.26
580-1972	1N4587	DO-8	S Rect	150A	100PIV	17.60
580-1974	1N4588	DO-8	S Rect	150A	200PIV	19.42
580-1976	1N4589	DO-8	S Rect	150A	300PIV	20.63
580-1978	1N4590	DO-8	S Rect	150A	400PIV	22.06
580-1980	1N4591	DO-8	S Rect	150A	500PIV	23.49
580-1982	1N4592	DO-8	S Rect	150A	600PIV	26.13
580-1984	1N4593	DO-8	S Rect	150A	800PIV	30.36
580-1986	1N4594	DO-8	S Rect	150A	1000PIV	34.38
640-4728	1N4728A	DO-41	S Zen	3.3V	1W	.90
640-4729	1N4729A	DO-41	S Zen	3.6V	1W	.90
640-4730	1N4730A	DO-11	S Zen	3.9V	1W	.90
640-4731	1N4731A	DO-41	S Zen	4.3V	1W	.90
640-4732	1N4732A	DO-41	S Zen	4.7V	1W	.90
640-4733	1N4733A	DO-41	S Zen	5.1V	1W	.90
640-4734	1N4734A	DO-41	S Zen	5.6V	1W	.90
640-4735	1N4735A	DO-41	S Zen	6.2V	1W	.90
640-4736	1N4736A	DO-41	S Zen	6.8V	1W	.90
640-4737	1N4737A	DO-41	S Zen	7.5V	1W	.90
640-4738	1N4738A	DO-41	S Zen	8.2V	1W	.90
640-4739	1N4739A	DO-41	S Zen	9.1V	1W	.90
640-4740	1N4740A	DO-41	S Zen	10V	1W	.90
640-4741	1N4741A	DO-41	S Zen	11V	1W	.90
640-4742	1N4742A	DO-41	S Zen	12V	1W	.90
640-4743	1N4743A	DO-41	S Zen	13V	1W	.90
640-4744	1N4744A	DO-41	S Zen	15V	1W	.90
640-4745	1N4745A	DO-41	S Zen	16V	1W	.90
640-4746	1N4746A	DO-41	S Zen	18V	1W	.90
640-4747	1N4747A	DO-41	S Zen	20V	1W	.90
640-4748	1N4748A	DO-41	S Zen	22V	1W	.90
640-4749	1N4749A	DO-41	S Zen	24V	1W	.90
640-4750	1N4750A	DO-41	S Zen	27V	1W	.90
640-4751	1N4751A	DO-41	S Zen	30V	1W	.90
640-4752	1N4752A	DO-41	S Zen	33V	1W	.90
578-4753	1N4753A	DO-41	S Zen	36V	1W	.90
578-4754	1N4754A	DO-41	S Zen	39V	1W	.90
578-4761	1N4761A	DO-41	S Zen	75V	1W	.90
577-4764	1N4764A	DO-41	S Zen	100V	1W	1.26
577-4816	1N4816	C-11	S Rect	1.5A	50V	.33
577-4818	1N4818	C-11	S Rect	1.5A	200V	.40
577-4822	1N4822	C-11	S Rect	1.5A	600V	.50
640-5221	1N5221B	DO-7	S Zen	2.4V	500mW	.80
640-5225	1N5225B	DO-7	S Zen	2.5V	500mW	.80
640-5226	1N5226B	DO-7	S Zen	3.3V	500mW	.80
640-5227	1N5227B	DO-7	S Zen	3.6V	500mW	.80
640-5228	1N5228B	DO-7	S Zen	3.9V	500mW	.80
640-5229	1N5229B	DO-7	S Zen	4.3V	500mW	.80
640-5230	1N5230B	DO-7	S Zen	4.7V	50mA	.80
640-5231	1N5231B	DO-7	S Zen	5V	500mW	.80
640-5232	1N5232B	DO-7	S Zen	5.6V	500mW	.80
640-5233	1N5233B	DO-7	S Zen	6V	500mW	.80
640-5239	1N5239B	DO-7	S Zen	9.1V	500mW	.80
640-5240	1N5240B	DO-7	S Zen	10V	50mW	.80
640-5242	1N5242B	DO-7	S Zen	12V	500mW	.80
640-5244	1N5244B	DO-7	S Zen	14V	500mW	.80
640-5245	1N5245B	DO-7	S Zen	15V	500mW	.80
640-5246	1N5246B	DO-7	S Zen	16V	500mW	.80
640-5250	1N5250B	DO-7	S Zen	20V	500mW	.80
640-5256	1N5256B	DO-7	S Zen	30V	500mW	.80
578-5337	1N5337B	C-12	S Zen	4.7V	5W	2.00
578-5338	1N5338B	C-12	S Zen	5.1V	5W	2.00
578-5340	1N5340B	C-12	S Zen	6V	5W	2.00
578-5344	1N5344B	C-12	S Zen	8.2V	5W	2.00
578-5346	1N5346B	C-12	S Zen	9.1V	5W	2.00
578-5347	1N5347B	C-12	S Zen	10V	5W	2.00
578-5349	1N5349B	C-12	S Zen	12V	5W	2.00
578-5352	1N5352B	C-12	S Zen	15V	5W	2.00
578-5355	1N5355B	C-12	S Zen	18V	5W	2.00
578-5359	1N5359B	C-12	S Zen	24V	5W	2.00
578-5363	1N5363B	C-12	S Zen	30V	5W	2.00
580-2000	2N681	TO-48	SCR	16A	25P V	2.65
580-2005	2N682	TO-48	SCR	16A	50P V	3.40
580-2010	2N683	TO-48	SCR	16A	100PIV	4.10
580-2015	2N684	TO-48	SCR	16A	150PIV	4.90
580-2020	2N685	TO-48	SCR	16A	200PIV	5.45
580-2025	2N686	TO-48	SCR	16A	250PIV	6.20

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Stock No.	Type	Case	Material Function	Specs.		EACH
580-2030	2N687	TO-48	SCR	16A	300PIV	6.50
580-2035	2N688	TO 48	SCR	16A	400PIV	7.45
580-2040	2N689	TO 48	SCR	16A	500PIV	8.35
580-2045	2N690	TO 48	SCR	16A	600PIV	9.15
580-2050	2N691	TO-48	SCR	16A	700P V	11.10
580-2055	2N692	TO-48	SCR	16A	800PIV	12.97
555R0697	2N697	TO-5	SNSP	150mA	40V	.87
555-0914	2N914	TO-18	SNSH	300mA	20V	.51
555-0918	2N918	TO 72	SNAU	200MHz	15V	.77
555-0930	2N930	TO-8	SNLN	25mA	45V	.51
555-1132	2N1132	TO 33	SPSH	150mA	50V	.97
555-1613	2N1613	TO-5	SNGP	150mA	50V	.90
555-1711	2N1711	TO-5	SNGP	500mA	50V	.93
580-2130	2N1805	TO-94	SCR	70A	600PIV	39.05
580-2135	2N1806	TO-94	SCR	70A	720PIV	43.29
580-2140	2N1807	TO-94	SCR	70A	840PIV	51.15
580-2145	2N1842	TO-48	SCR	10A	25PIV	2.75
580-2190	2N1842A	TO 48	SCR	10A	25PIV	2.90
580-2150	2N1843	TO-48	SCR	10A	50PIV	3.05
580-2195	2N1843A	TO-48	SCR	10A	50PIV	3.25
580-2155	2N1844	TO-48	SCR	10A	100PIV	3.85
580-2200	2N1844A	TO 48	SCR	10A	100PIV	4.15
580-2160	2N1845	TO-48	SCR	10A	150PIV	4.50
580-2205	2N1845A	TO-48	SCR	10A	150PIV	4.80
580-2165	2N1846	TO-48	SCR	10A	200PIV	5.25
580-2210	2N1846A	TO-48	SCR	10A	200PIV	5.50
580-2170	2N1847	TO-48	SCR	10A	250PIV	5.80
580-2215	2N1847A	TO 48	SCR	10A	250PIV	6.10
580-2175	2N1848	TO-48	SCR	10A	300PIV	6.35
580-2220	2N1848A	TO-48	SCR	10A	300PIV	6.65
580-2180	2N1849	TO 48	SCR	10A	400PIV	7.20
580-2225	2N1849A	TO-48	SCR	10A	400PIV	7.70
580-2185	2N1850	TO-48	SCR	10A	500PIV	8.20
580-2230	2N1850A	TO-48	SCR	10A	500PIV	8.60
555-1893	2N1893	TO-5	SNSP	150mA	60V	.86
580-2235	2N1909	TO-94	SCR	70A	25PIV	15.95
580-2240	2N1910	TO-94	SCR	70A	50PIV	17.55
580-2245	2N1911	TO-94	SCR	70A	100PIV	19.03
580-2250	2N1912	TO-94	SCR	70A	150PIV	20.85
580-2255	2N1913	TO-94	SCR	70A	200PIV	22.72
580-2260	2N1914	TO-94	SCR	70A	250PIV	25.03
580-2265	2N1915	TO-94	SCR	70A	300PIV	26.90
580-2270	2N1916	TO-94	SCR	70A	400PIV	31.08
555-2218	2N2218	TO-5	SNSH	500mA	30V	.55
555-2219	2N2219	TO-5	SNSH	500mA	30V	.55
556-2219	2N2219A	TO-5	SNSH	500mA	40V	.56
555R2222	2N2222A	TO-18	SNSH	500mA	40V	.16
555-2270	2N2270	TO-5	SNAR	500mA	45V	.82
555-2369	2N2369A	TO-18	SNAU	100mA	15V	.60
555-2405	2N2405	TO-5	SNAP	150mA	90V	1.40
555-2484	2N2484	TO-18	SNGL	25mA	60V	.55
556-2904	2N2904A	TO-5	SPGP	500mA	60V	.90
555-2905	2N2905	TO-5	SPGP	500mA	40V	.55
556-2905	2N2905A	TO-5	SPGP	500mA	60V	.93
555-2907	2N2907	TO-18	SPGP	500mA	40V	.50
556-2907	2N2907A	TO-18	SPGP	500mA	60V	.51
555-2920	2N2920	TO-78	SNAD	50mA	60V	4.38
555R3053	2N3053	TO-5	SNAP	150mA	40V	.57
555-3054	2N3054	TO-60	SNAP	4A	55V	1.63
555-3055	2N3055	TO-66	SNAP	15A	60V	1.48
580-2275	2N3091	TO-94	SCR	70A	600PIV	47.91
580-2280	2N3092	TO-94	SCR	70A	700PIV	52.86
580-2285	2N3093	TO 94	SCR	70A	800PIV	59.90
580-2290	2N3094	TO-94	SCR	70A	900PIV	66.00
580-2295	2N3095	TO-94	SCR	70A	1000PIV	71.89
580-2300	2N3096	TO 94	SCR	70A	1100PIV	76.78
580-2305	2N3097	TO-94	SCR	70A	1200PIV	82.78
555-3107	2N3107	TO-5	SNGP	1A	80V	1.14
555-3108	2N3108	TO-5	SNGP	1A	60V	1.14
555-3114	2N3114	TO-39	SNGP	100mA	150V	2.28
555-3117	2N3117	TO-18	SNAH	25mA	60V	1.20
555-3250	2N3250	TO-18	SPSH	100mA	40V	.46
555-3251	2N3251	TO-18	SPSH	100mA	40V	.46
555-3439	2N3439	TO-5	SNAP	1A	350V	2.00
555-3440	2N3440	TO-5	SNAP	1A	250V	1.35
555R3565	2N3565	TO-106	SNAL	25mA	25V	.38
555-3566	2N3566	TO-105	SNGP	500mA	30V	.38
555-3567	2N3567	TO-105	SNGP	1A	40V	.38
555R3568	2N3568	TO-105	SNGP	1A	60V	.42
555R3569	2N3569	TO-105	SNGP	1A	40V	.44
555R3638	2N3638	TO-105	SPSH	500mA	25V	.38
556-3638	2N3638A	TO-105	SPSH	500mA	25V	.42
555-3640	2N3640	TO-106	SPSH	50mA	12V	.44
555-3641	2N3641	TO-105	SNSP	500mA	30V	.38
555-3642	2N3642	TO-105	SNSP	500mA	45V	.42
555R3643	2N3643	TO-105	SNSP	500mA	30V	.42
555-3644	2N3644	TO-105	SPSH	500mA	45V	.44
555-3645	2N3645	TO-145	SPSH	500mA	60V	.47
555-3646	2N3646	TO-106	SPSH	300mA	15V	.38
579-3713	2N3713	TO-3	SNAP	15A	60V	1.83
555-3714	2N3714	TO-3	SNAP	10A	60V	2.00
555-3715	2N3715	TO-3	SNAP	10A	60V	2.35
555-3716	2N3716	TO-3	SNAP	10A	80V	3.10
555-3740	2N3740	TO-66	SNAP	4A	60V	2.23
555-3766	2N3766	TO-66	SNAP	4A	60V	1.88
579-3789	2N3789	TO-3	SPAP	10A	60V	3.63
555-3790	2N3790	TO-3	SPAP	10A	80V	4.00
579-3791	2N3791	TO-3	PPT	10A	60V	4.00
555-3792	2N3792	TO-3	SPAP	10A	80V	4.65
579-3902	2N3902	TO-3	NPT	10A	325V	7.30
555-3903	2N3903	TO-92	SNSH	100mA	40V	.26
555R3904	2N3904	TO-92	SPSH	100mA	40V	.51
555-3905	2N3905	TO-92	SPSH	100mA	40V	.26
555R3906	2N3906	TO-92	SNSH	100mA	40V	.53
555-4123	2N4123	TO-92	SNGP	100mA	25V	.34
555R4124	2N4124	TO-92	SNGP	2mA	25V	.34
555-4125	2N4125	TO-92	SPGP	2mA	30V	.34
555-4126	2N4126	TO-90	SPGP	2mA	25V	.34
555-4234	2N4234	TO-5	SPAP	3A	40V	2.55
555-4248	2N4248	R-126	PNP-MET	50mA	40V	.38
555-4249	2N4249	R 128	PNP-MET	50mA	60V	.42
555-4250	2N4250	R-128	PNP MET	50mA	40V	.44
555-4258	2N4258	TO 18	SSSH	50mA	12V	.55
555-4354	2N4354	TO-5	GPA	1A	60V	.50
555-4355	2N4355	TO-5	GPA	1A	60V	.57
555-4356	2N4356	TO-5	GPA	1A	80V	.57
580-2315	2N4361	TO-94	SCR	70A	100PIV	23.10
580-2320	2N4362	TO-94	SCR	70A	200PIV	27.17
580-2325	2N4363	TO-94	SCR	70A	400PIV	36.58
580-2330	2N4364	TO-94	SCR	70A	600PIV	45.71
580-2335	2N4365	TO-94	SCR	70A	800PIV	57.15
580-2340	2N4366	TO-94	SCR	70A	1000PIV	68.59
580-2345	2N4367	TO-94	SCR	70A	1200PIV	78.87
555-4400	2N4400	TO-92	SNGP	300mA	40V	.23
555-4401	2N4401	TO-92	SNGP	150mA	40V	.71
555-4402	2N4402	TO-92	SPGP	150mA	40V	.23
555-4403	2N4403	TO-92	SPGP	150mA	40V	.29
555-4410	2N4410	TO-92	SNGP	25mA	80V	.90
555-4898	2N4898	TO-66	SPAP	1A	40V	2.03
583-5039	2N5039	TO-3	SNAP	20A	75V	5.30
555-5087	2N5087	TO-92	SPGP	500mA	50V	.45
555-5088	2N5088	TO-92	SNGP	50mA	30V	.34
555-5089	2N5089	TO-92	SNGP	50mA	25V	.43
555-5133	2N5133	TO-106	SNAV	50mA	18V	.37
555-5135	2N5135	TO-106	SNAV	500mA	25V	.37
555-5138	2N5138	TO-18	SS	50mA	30V	.37
579-5157	2N5157	TO-3	NPT	10A	400V	11.10
555-5296	2N5296	TO-220	NPT	4A	40V	.93
579-5301	2N5301	MD-6K	NPT	30A	40V	4.25
579-5302	2N5302	MD-6K	NPT	30A	60V	4.75
555-5415	2N5415	TO-5	PSP	1A	200V	1.50
555-5416	2N5416	TO-5	PSP	1A	300V	2.03
555-5492	2N5492	TO-220	NSM	7A	55V	1.25
555-5496	2N5496	TO-220	NSM	7A	70V	1.35
579-5632	2N5632	TO-3	NPT	10A	100V	4.75
579-5758	2N5758	MT-33	NPT	3A	100V	5.10
579-5804	2N5804	TO-3	NPT	15A	225V	6.05
555-5871	2N5871	TO-3	MET-P-PWR	7A	60V	2.15
555-5872	2N5872	TO-3	MET-P-PWR	7A	80V	2.65
555-5881	2N5881	TO-3	MET-N-PWR	15A	60V	3.65
555-5883	2N5883	TO-3	MET-P PWR	25A	60V	5.53
555-5884	2N5884	TO 3	MET P PWR	25A	80V	6.55
555-5886	2N5886	TO 3	MET-N-PWR	25A	80V	5.53
579-6029	2N6029	MD2 18	PPT	30A	100V	7.40
579-6031	2N6031	MD2 18	PPT	30A	140V	10.10
579-6050	2N6050	TO 3	PPT	12A	60V	5.90
579-6053	2N6053	TO-3	PPD	16A	60V	3.00
579-6055	2N6055	TO-3	NPD	8A	60V	1.88
579-6057	2N6057	TO-3	NPD	12A	60V	4.60
555-6103	2N6103	TO-220	NPT	16A	40V	1.58
555-6109	2N6109	TO-220	PPT	7A	50V	1.18
555-6121	2N6121	TO-220	NPN-PWR	4A	45V	.95
555-6122	2N6122	TO-220	NPN PWR	4A	60V	1.03
555-6123	2N6123	TO 220	NPN PWR	4A	80V	1.10
555-6124	2N6124	TO 220	PNP-PWR	4A	45V	1.03
555-6125	2N6125	TO-220	PNP-PWR	4A	60V	1.10
555-6126	2N6126	TO-220	PNP PWR	4A	60V	1.18
555-6131	2N6131	TO-220	NPN-PWR	7A	80V	1.55
555-6134	2N6134	TO-220	PNP-PWR	7A	80V	1.70
579-6226	2N6226	MD6J	PPT	3A	100V	5.80
579-6246	2N6246	TO-3	PPT	15A	80V	2.53
579-6247	2N6247	TO-3	PPT	15A	80V	2.95
579-6251	2N6251	TO-3	NPT	30A	350V	12.38
579-6274	2N6274	TO-3	NPT	50A	100V	11.69
579-6275	2N6275	TO-3	NPT	50A	120V	14.20
579-6276	2N6276	TO 3	YPT	50A	140V	18.62
579-6277	2N6277	TO-3	NPT	50A	160V	23.05
579-6282	2N6282	MD2-18	NPD	10A	60V	7.80
579-6306	2N6306	TO-3	NPT	16A	250V	5.13
579-6307	2N6307	TO-3	NPT	16A	300V	5.75
579-6383	2N6383	TO 3	NPD	5A	40V	2.03
579-6385	2N6385	TO-3	NPD	5A	80V	2.50
579-6547	2N6547	TO-66	NPT	30A	400V	10.60
555-6576	2N6576	TO-66	NPD	15A	60V	1.73
817-8904	E0750	SP47	HW Rect	75mA	380V	2.48
817-8905	E1500	SP47A	HW Rect	150mA	380V	4.83
935-0715	ECG102	TO-5	PNP GE	.3A	30V	1.98
935-0720	ECG102A	TO-1	PNP GE	.5A	32V	2.10
935-0730	ECG103A	TO 1	NPN GE	5A	32V	2.48
935-0735	ECG104	TO-3	PNP GE	7A	50V	2.00
935-0755	ECG107	TO-98	NPN SI	25mA	35V	1.65
935-0760	ECG108	RO-97A	NPN SI	75mA	35V	2.05
935-0765	ECG109	DO-7	GEGP	5mA	75PRV	.38
935-0780	ECG113	DO-4	SE Dual	Horiz AFC		.66
935-0795	ECG116	DO-7	S Rect	1A	600PRV	.73
935-0800	ECG117	DO-39	S Rect	1A	600PRV	.80
935-0820	ECG121	TO-3	PNP GE	7A	65V	4.05
935-0835	ECG123	TO 3	NPN SI	5A	30V	1.33
935-0840	ECG123A	TO 18	NPN SI	6A	65V	1.78
935-0845	ECG124	TO-66	NPN SI	.4A	300V	2.88
935-0850	ECG125	DO-7	S Rect	2.5A	1000PRV	1.10
935-0855	ECG126	TO 18	PNP GE	2A	25V	2.38
935-0865	ECG128	TO 5	NPN SI	1A	100V	2.38
935-0870	ECG129	TO 5	PNP SI	1A	100V	2.50
935-0875	ECG130	TO 3	NPN SI	15A	80V	4.75
935-0885	ECG131	MD-17	PNP GE	3A Peak	32V	3.88
935-0895	ECG132	TO-106	J FET	10mA	25V	2.10
935-0995	ECG152	TO-220	NPN SI	4A	60V	3.00
935-1000	ECG153	TO 220	PNP SI	4A	60V	3.38
935-1005	ECG154	TO 39	NPN SI	50mA	300V	4.33
935-1015	ECG156	DO-27	S Rect	3A	1000 PRV	1.70
935-1020	ECG157	X-58	NPN SI	.5A	300V	2.63
935-1025	ECG158	TO-1	PNP GE	1A	32V	2.48
935-1030	ECG159	TO-92	PNP GE	1A	80V	2.05
935-1035	ECG160	TO-72	PNP GE	10mA	30V	3.00
935-1040	ECG161	TO-72	NPN SI	50mA	45V	2.10
935-1045	ECG162	TO 3	NPN SI	10A Peak	400V	10.45
935-1060	ECG163	TO 3	NPN SI	5A	1500V	13.50
935-1110	ECG175	TO-66	NPN SI	4A	200V	3.13
935-1120	ECG177	TO-3	PNP GE	25A	90V	1.13
935-1155	ECG184	X-58	NPN SI	4A	60V	2.50
935-1165	ECG186	X-51	NPN SI	3A	60V	2.88
935-1170	ECG186A	MX-51	NPN SI	3A	50V	2.88
935-1265	ECG192	R-205	NPN SI	1A	70V	2.40
935-1215	ECG193	R-205	PNP SI	1A	70V	2.48
935-1235	ECG196	TO 220	NPN SI	7A	90V	3.75
935-1250	ECG199	TO-98	NPN SI	1A	70V	1.85
935-1430	ECG243	TO-3	NPN DAS1	8A	80V	4.20
935-1440	ECG245	TO-3	NPN DAS1	10A	80V	6.88
935-1450	ECG247	TO-3	NPN DAS1	12A	100V	7.45
935-1490	ECG257	X-58A	NPN DAS1	5A	80V	4.00
935-1530	ECG265	X-51	NPN DAS1	5A	50V	1.68
935-0002	ECG304 Kit		24 Most Popular Transistors			65.63
935-2055	ECG506	DO-39	S Diode	1A	1400PRV	1.25
935-3775	ECG5603	X-58	Triac	4A	100VRM	2.35
935-3785	ECG5605	X-58	Triac	4A	400VRM	2.95
935-3795	ECG5607	X-58	Triac	4A	600VRM	5.25
935-3815	ECG5614	X-58A	Triac	10A	200VRM	3.55
935-3840	ECG5621	X-58A	Triac	10A	25VRM	1.95
935-3865	ECG5626	X-58A	Triac	10A	400VRM	4.15
935-3875	ECG5628	X-58A	Triac	10A	600VRM	5.25
935-3890	ECG5633	TO-220	Triac	10A	200VRM	2.63
935-3895	ECG5634	TO-220	Triac	10A	300VRM	3.05
935-3900	ECG5635	TO-220	Triac	10A	400VRM	3.90
935-3905	ECG5636	TO-220	Triac	10A	500VRM	4.08
935-3920	ECG5642	TO-5	Triac	2.5A	400VRM	2.95
935-3925	ECG5643	TO-5	Triac	2.5A	600VRM	3.65
935-3935	ECG5651	TO-5	Triac	2.5A	200VRM	3.58
935-3940	ECG5652	TO-5	Triac	2.5A	400VRM	4.48
935-3985	ECG5673	TO-48	Triac	15A	200VRM	5.70
935-3990	ECG5675	TO-48	Triac	15A	400VRM	6.70
935-4045	ECG5695	TO-48	Triac	40A	400VRM	11.80
935-4055	ECG5800	C-12	Rect	3A	50PRV	.55
935-4060	ECG5801	C 12	Rect	3A	100PRV	.88
935-4065	ECG5802	C-12	Rect	3A	200PRV	1.03
935-4075	ECG5804	C-12	Rect	3A	400PRV	1.40
935-4085	ECG5806	C 12	Rect	3A	600PRV	1.73
935-4700	ECG5994	DO 5	Rect	40A	600PRV	8.88
555-9903	FLV104		OPTO			2.50
555-9909	FPT100	TO-106	Sensor			1.18
817-8910	IR106B1	TO 202AA	SCR	4A	200V	.86
817-7756	IR106C1	SP67	SCR	4A	300V	1.06
817-8912	IR106F1	SP67	SCR	4A	50V	.74
817-8913	IR106Y1	SP67	SCR	4A	30V	.71
817-0410	IR410	TO-3	NPT	10A	200V	3.38
817-0411	IR411	TO-3	NPT	10A	300V	3.80
817-0423	IR423	TO-3	NPT	10A	325V	4.80
817-0431	IR431	TO 3	NPT	10A	325V	5.28
817-1000	IR1000	TO-3	NPT	3A	80V	3.10
817-1020	IR1020	TO-3	NPD	10A	80V	2.81
817-6251	IR6251	TO-3	NPD	15A	350V	9.88
817-8918	J29B1	SP 34C	SL REC	1 5A	0-29VDC	7.63
817-8921	J29B5	SP34G	SL REC	5A	0-29VDC	14.38
817-8919	J29B8	SP34E	SL REC	10A	0 29VDC	12.44
817-8926	J116B04	SP34I	SL REC	5A	0 116VDC	11.00
817-8927	J116B1	SP34M	SL REC	1 5A	0-116VDC	10.45
817-8928	J116B5	SP34N	SL REC	5A	0 116VDC	26.85
817-0120	KY50PF	SP-34	SL REC	25A	250V	3.35
555-8515	MPS6515	TO 92	SNGP	100mA	25V	.31
555-8531	MPS6531	TO-92	SNGP	500mA	40V	.71
555-8534	MPS6534	TO-92	SNGP	500mA	40V	.34
555-9800	TIP29	TO 220	NPN PWR	1A	40V	.70
555-9801	TIP29A	TO 220	NPN PWR	1A	60V	.75
555-9805	TIP30	TO-220	PNP PWR	1A	40V	.73
555-9806	TIP30A	TO-220	PNP PWR	1A	60V	.75
555-9810	TIP31	TO-220	NPN-PWR	3A	40V	.80
555-9811	TIP31A	TO-220	NPN-PWR	3A	60V	.88
555-9812	TIP31B	TO-220	NPN-PWR	3A	80V	.93
555-9815	TIP32	TO-220	PNP-PWR	3A	40V	.88
555-9816	TIP32A	TO-220	PNP-PWR	3A	60V	.90
976-0105	V105X	DO-7	Rect	1A	50PIV	.56
976-0110	V110X	DO 7	Rect	1A	100PIV	.58
976-0120	V120X	DO-7	Rect	1A	200PIV	.61
976-0140	V140X	DO-7	Rect	1A	400PIV	.65
976-0160	V160X	DO 7	Rect	1A	600PIV	.70
976-0500	V350	DO-7	S Rect	3A	50PIV	.73
976-0505	V350	DO-7	S Rect	3A	100PIV	.75
976-0510	V352	DO-7	S Rect	3A	200PIV	.78
976-0515	V354	DO-7	S Rect	3A	400PIV	.80
976-0520	V356	DO 7	S Rect	3A	600PIV	.88
976-0525	V358	DO-7	S Rect	3A	800PIV	1.00
976-0530	V3510	DO-7	S Rect	3A	1000PIV	1.15
976-1412	VB50	SP119	S Rect	50mA	5000PRV	4.55
976-1540	VC60	SP120	S Rect	1 5A	6000PRV	12.50
976-1560	VC80	SP120	S Rect	1A	8000PRV	13.75
976-3201	VE08/W111	SP-121	S Rect B	1A	50PIV	1.43
976-2010	VE18	SP121	S Rect B	1A	100PIV	1.50
976-2019	VE27	SP121	S Rect B	1A	200PIV	1.90
976-2020	VE28	SP121	S Rect B	1A	200P V	1.60
976-2042	VE47	SP121	S Rect B	1A	400PIV	3.48
976-2050	VE48	SP121	S Rect B	1A	400P V	1.68
976-2074	VE57	SP121	S Rect B	1A	600PIV	2.53
976-2090	VE68	SP121	S Rect B	1A	600PIV	2.06
976-2720	VE25/40	SP122A	S Rect	25mA	40 000PRV	10.19
976-3310	VG10	SP19	Rect	25mA	10.000PRV	2.95
976-3700	VH048	SP123	B Rect	6A	50PIV	3.58
976R2850	VH148	SP123	S Rect B	6A	100PIV	2.68
976R2852	VH247	SP123	S Rect B	6A	200PIV	3.20
976-2853	VH248	SP123	S Rect B	6A	200PIV	2.90
976-2854	VH447	SP123	S Rect B	6A	400PIV	3.68
976-2856	VH448	SP123	S Rect B	6A	400PIV	3.30
976-2858	VH647	SP123	S Rect B	6A	600PIV	4.23
976-2860	VH648	SP123	S Rect B	6A	600PIV	5.88
976-2905	VJ448	SP123	B Rect	6A	400PIV	5.58
976-0550	VK048	D-17	B Rect	30A	50PIV	6.55
976-0555	VK148	D-17	B Rect	30A	100PIV	6.70
976-0560	VK248	D-17	B Rect	30A	200PIV	4.28
976-0565	VK448	D-17	B Rect	30A	400PIV	4.45
976-0570	VK648	D-17	B Rect	30A	600PIV	7.63
976-0575	VK848	D-17	B Rect	30A	800PIV	8.70
976-0580	VK1048	D-17	B Rect	30A	1000PIV	9.20
976-0450	VM08	SP-89	MD B Rect	1A	50PIV	.97
976-0455	VM18	SP 89	MD B Rect	1A	100PIV	1.01
976-0460	VM28	SP 89	MD B Rect	1A	200PIV	1.10
976-0465	VM48	SP-89	MD B Rect	1A	400PIV	1.18
976-0470	VM68	SP-89	MD B Rect	1A	600PIV	1.28
976-0480	VM108	SP-89	MD B Rect	1A	1000PIV	1.85
976-3835	VS048	SP123	B Rect	2A	50PIV	2.33
976R0310	VS148	SP123	B Rect	2A	100PIV	1.75
976R3130	VS247	SP123	S Rect B	2A	200PIV	2.13
976R3131	VS248	SP123	S Rect B	2A	200PIV	1.88
976-3140	VS447	SP123	S Rect B	2A	400PIV	2.45
976-3141	VS448	SP123	S Rect B	2A	400PIV	2.20
976-3148	VS647	SP123	S Rect B	2A	600PIV	2.83

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Stock No.	Type	Case	Material Function	Specs.		EACH
976-3152	VS648	SP123	S Rect B	2A	600PIV	3.85
976-0406	VSK140	DO-5	S BA Rect	1A	40PIV	2.28
976-0416	VSK340	DO 5	S BA Rect	3A	40PIV	4.15
976-0426	VSK540	DO 5	S BA Rect	5A	40PIV	5.87
976-0436	VSK1540	DO-5	S BA Rect	15A	40PIV	7.30
976-0446	VSK3040S	DO 5	S BA Rect	30A	40PIV	7.83
976-3160	VT200	SP124	S Rect B	25A	200PIV	10.90
976-3161	VT200/S	SP125	S Rect B	25A	200PIV	11.90
976-3162	VT200/T	SP126	S Rect B	25A	200PIV	11.65
976-3170	VT400	SS124	S Rect B	25A	400PIV	10.75
976-3171	VT400/S	SP125	S Rect B	25A	400PIV	11.50
976-3172	VT400/T	SP126	S Rect B	25A	400PIV	14.68
976-3180	VT600	SP124	S Rect B	25A	600PIV	13.00
976-3181	VT600/S	SP125	S Rect B	25A	600PIV	13.60
976-3182	VT600/T	SP126	S Rect B	25A	600PIV	13.50
976-3200	W110	SP121	S Rect B	1A	25PIV	2.13
817-7190	10D2	DO 39	S Rect	1.5A	200PIV	.38
817-7192	10D4	DO-39	S Rect	1.5A	400PIV	.43
817-7194	10D6	DO 39	S Rect	1.5A	600PIV	.50
817-7198	10D10	DO-39	S Rect	1.5A	1000PIV	.83
580-3600	10RC5A	TO-48	SCR	10A	50PIV	3.70
580-3610	10RC10A	TO-48	SCR	10A	100PIV	4.10
580-3620	10RC20A	TO-48	SCR	10A	200P V	5.45
580-3630	10RC30A	TO-48	SCR	10A	300PIV	6.50
580-3640	10RC40A	TO-48	SCR	10A	400PIV	7.40
580-3650	10RC50A	TO-48	SCR	10A	500PIV	8.35
580-3660	10RC60A	TO-48	SCR	10A	600PIV	9.15
580-3670	10RC80A	TO-48	SCR	10A	800PIV	12.95
580-3680	10RC100A	TO 48	SCR	10A	1000PIV	16.90
580-3710	12F5B	DO 4	S Rect	12A	50PIV	1.16
580-3720	12FR5B	DO-4	S Rect	12A	50PIV	1.16
580-3750	12F10B	DO-4	S Rect	12A	100PIV	1.31
580-3760	12FR10B	DO-4	S Rect	12A	100PIV	1.31
580-3790	12F15B	DO-4	S Rect	12A	150PIV	1.58
580-3800	12FR15B	DO-4	S Rect	12A	150PIV	1.58
580-3830	12F20B	DO-4	S Rect	12A	200PIV	1.86
580-3840	12FR20B	DO-4	S Rect	12A	200P.V	1.86
580-3910	12F40B	DO-4	S Rect	12A	400PIV	1.95
580-3920	12FR40B	DO-4	S Rect	12A	400PIV	1.95
580-3990	12F60B	DO-4	S Rect	12A	600PIV	3.46
580-4000	12FR60B	DO 4	S Rect	12A	600PIV	3.46
580-4030	12F80B	DO-4	S Rect	12A	800PIV	6.27
580-4040	12FR80B	DO-4	S Rect	12A	800PIV	6.27
580-4070	12F100B	DO 4	S Rect	12A	1000PIV	9.33
580-4080	12FR100B	DO 4	S Rect	12A	1000PIV	9.33
580-4100	16F5	DO-4	S Rect	16A	50PIV	1.80
580-4110	16FR5	DO 4	S Rect	16A	50PIV	1.80
580-4120	16F10	DO-4	S Rect	16A	100PIV	2.00
580-4130	16FR10	DO 4	S Rect	16A	100P.V	2.00
580-4140	16F15	DO-4	S Rect	16A	150PIV	2.38
580-4150	16FR15	DO 4	S Rect	16A	150PIV	2.38
580-4160	16F20	DO-4	S Rect	16A	200PIV	2.80
580-4170	16FR20	DO 4	S Rect	16A	200PIV	2.80
580-4180	16F30	DO-4	S Rect	16A	300PIV	3.80
580-4190	16FR30	DO 4	S Rect	16A	300PIV	3.80
580-4200	16F40	DO 4	S Rect	16A	400PIV	4.60
580-4210	16FR40	DO-4	S Rect	16A	400P V	4.60
580-4240	16F60	DO-4	S Rect	16A	600PIV	6.40
580-4250	16FR60	DO 4	S Rect	16A	600PIV	6.40
580-4260	16F80	DO-4	S Rect	16A	800PIV	7.80
580-4270	16FR80	DO-4	S Rect	16A	800PIV	7.80
580-4280	16F100	DO-4	S Rect	16A	1000PIV	8.80
580-4290	16FR100	DO 4	S Rect	16A	1000PIV	8.80
580-4300	16RC5A	TO-48	SCR	22.3A	50PIV	4.40
580-4310	16RC10A	TO-48	SCR	22.3A	100PIV	4.90
580-4320	16RC20A	TO 48	SCR	22.3A	200PIV	6.30
580-4330	16RC30A	TO-48	SCR	22.3A	300PIV	7.50
580-4340	16RC40A	TO 48	SCR	22.3A	400PIV	8.80
580-4350	16RC50A	TO-48	SCR	22.3A	500PIV	9.85
580-4360	16RC60A	TO 48	SCR	22.3A	600PIV	10.80
580-4370	16RC80A	TO 48	SCR	22.3A	800PIV	11.45
580-4380	16RC100A	TO-48	SCR	22.3A	1000PIV	13.60
580-4390	16RC110A	TO-48	SCR	22.3A	1100PIV	15.05
580-4400	16RC120A	TO-48	SCR	22.3A	1200PIV	17.05
817-8287	18DB2A	D-2	Rect BR	1.8A	200PIV	1.40
817-8306	18DB4A	D-2	Rect BR	1.8A	400PIV	2.98
817-8310	18DB6A	D-2	Rect BR	1.8A	600PIV	3.73
817-8314	18DB10A	D-2	Rect BR	1.8A	1000PIV	4.85
580-4410	18RC10	TO-48	SCR	18A	100PIV	6.01
580-4420	18RC20	TO-48	SCR	18A	200PIV	7.40
580-4430	18RC30	TO-48	SCR	18A	300PIV	9.10
580-4440	18RC40	TO-48	SCR	18A	400PIV	10.60
580-4450	18RC50	TO-48	SCR	18A	500PIV	12.25
580-4460	18RC60	TO-48	SCR	18A	600P.V	14.30
817-8350	20D1	DO-39	S Rect	2A	100PIV	.50
817-8356	20D4	DO-39	S Rect	2A	400PIV	.60
817-8360	20D6	DO-39	S Rect	2A	600PIV	.73
817-8368	20D10	DO-39	S Rect	2A	1000PIV	1.31
817-8370	30S1	SP 60	S Rect	3A	100PIV	.50
817-8371	30S2	SP-60	S Rect	3A	200PIV	.56
817-8372	30S3	SP-60	S Rect	3A	300PIV	.61
817-8373	30S4	SP-60	S Rect	3A	400PIV	.66
817-8375	30S6	SP-60	S Rect	3A	600PIV	.80
817-8377	30S10	SP-60	S Rect	3A	1000PIV	1.40
580-4570	36RC5A	TO 94	SCR	50A	50PIV	16.45
580-4580	36RC10A	TO-94	SCR	50A	100PIV	18.54
580-4590	36RC20A	TO-94	SCR	50A	200PIV	20.02
580-4600	36RC30A	TO 94	SCR	50A	300PIV	23.82
580-4610	36RC40A	TO 94	SCR	50A	400PIV	27.17
580-4620	36RC50A	TO 94	SCR	50A	500PIV	30.58
580-4630	36RC60A	TO 94	SCR	50A	600PIV	34.49
580-4640	36RC80A	TO 94	SCR	50A	800PIV	40.92
580-4650	40HF5	DO-5	S Rect	40A	50PIV	2.37
580-4660	40HFR5	DO-5	S Rect	40A	50PIV	2.37
580-4670	40HF10	DO-5	S Rect	40A	100PIV	2.92
580-4680	40HFR10	DO 5	S Rect	40A	100P V	2.92
580-4690	40HF15	DO 5	S Rect	40A	150PIV	3.58
580-4700	40HFR15	DO-5	S Rect	40A	150PIV	3.58
580-4710	40HF20	DO-5	S Rect	40A	200PIV	4.02
580-4720	40HFR20	DO 5	S Rect	40A	200PIV	4.02
580-4730	40HF30	DO 5	S Rect	40A	300PIV	5.06
580-4740	40HFR30	DO-5	S Rect	40A	300PIV	5.06
580-4750	40HF40	DO-5	S Rect	40A	400PIV	6.33
580-4760	40HFR40	DO-5	S Rect	40A	400PIV	6.33
580-4770	40HF50	DO 5	S Rect	40A	500PIV	6.88
580-4780	40HFR50	DO-5	S Rect	40A	500PIV	6.88
580-4790	40HF60	DO-5	S Rect	40A	600PIV	7.43
580-4800	40HFR60	DO-5	S Rect	40A	600PIV	7.43
580-4810	40HF70	DO-5	S Rect	40A	700PIV	7.80
580-4820	40HFR70	DO-5	S Rect	40A	700PIV	7.80
580-4830	40HF80	DO-5	S Rect	40A	800PIV	8.95
580-4840	40HFR80	DO-5	S Rect	40A	800PIV	8.95
580-4850	40HF90	DO-5	S Rect	40A	900PIV	10.16
580-4860	40HFR90	DO-5	S Rect	40A	900PIV	10.16
580-4870	40HF100	DO-5	S Rect	40A	1000PIV	11.66
580-4880	40HFR100	DO-5	S Rect	40A	1000PIV	11.66
580-4890	40RC5S	TO-65	SCR	40A	50PIV	15.18
580-4900	40RC510	TO-65	SCR	40A	100PIV	16.89
580-4910	40RC520	TO-65	SCR	40A	200PIV	17.44
580-4920	40RC530	TO-65	SCR	40A	300PIV	17.99
580-4930	40R S40	TO 65	SCR	40A	400P.V	19.47
580-4940	40RCS50	TO-65	SCR	40A	500PIV	21.67
580-4950	40RCS60	TO-65	SCR	40A	600PIV	25.14
580-4960	40RCS80	TO-65	SCR	40A	800PIV	33.11
580-4970	40RCS100	TO-65	SCR	40A	1000PIV	41.53
580-4980	50RCS5	TO-65	SCR	50A	50PIV	15.18
580-4990	50RCS10	TO-65	SCR	50A	100PIV	16.89
580-5000	50RCS20	TO-65	SCR	50A	200PIV	17.44
580-5010	50RCS30	TO-65	SCR	50A	300PIV	17.99
580-5020	50RCS40	TO-65	SCR	50A	400PIV	19.47
580-5030	50RCS50	TO-65	SCR	50A	500PIV	21.67
580-5040	50RCS60	TO-65	SCR	50A	600PIV	25.14
580-5050	50RCS80	TO-65	SCR	50A	800PIV	33.11
580-5060	50RCS100	TO-65	SCR	50A	1000PIV	41.53
580-5070	50RCS5S60	TO-65	SCR	50A	50PIV	16.89
580-5080	50RCS10S60	TO-65	SCR	50A	100PIV	17.33
580-5090	50RCS20S60	TO-65	SCR	50A	200PIV	17.82
580-5100	50RCS30S60	TO-65	SCR	50A	300PIV	18.37
580-5110	50RCS40S60	TO-65	SCR	50A	400PIV	19.91
580-5120	50RCS50S60	TO-65	SCR	50A	500PIV	22.00
580-5130	50RCS60S60	TO-65	SCR	50A	600PIV	25.69
580-5140	50RCS80S60	TO-65	SCR	50A	800PIV	33.50
580-5150	50RCS100S60	TO-65	SCR	50A	1000PIV	42.63
580-5160	60HF5	DO-5	S Rect	60A	50PIV	2.59
580-5170	60HFR5	DO 5	S Rect	60A	50PIV	2.59
580-5180	60HF10	DO 5	S Rect	60A	100PIV	3.28
580-5190	60HFR10	DO-5	S Rect	60A	100PIV	3.28
580-5200	60HF15	DO-5	S Rect	60A	150P.V	3.55
580-5210	60HFR15	DO 5	S Rect	60A	150PIV	3.55
580-5220	60HF20	DO-5	S Rect	60A	200PIV	4.07
580-5230	60HFR20	DO 5	S Rect	60A	200PIV	4.07
580-5240	60HF25	DO-5	S Rect	60A	250PIV	4.49
580-5250	60HFR25	DO-5	S Rect	60A	250PIV	4.49
580-5260	60HF30	DO-5	S Rect	60A	300P.V	4.82
580-5270	60HFR30	DO-5	S Rect	60A	300PIV	4.82
580-5280	60HF35	DO-5	S Rect	60A	350PIV	5.14
580-5290	60HFR35	DO-5	S Rect	60A	350PIV	5.14
580-5300	60HF40	DO-5	S Rect	60A	400PIV	5.67
580-5310	60HFR40	DO-5	S Rect	60A	400PIV	5.67
580-5320	60HF45	DO-5	S Rect	60A	450PIV	6.18
580-5330	60HFR45	DO-5	S Rect	60A	450PIV	6.18
580-5340	60HF50	DO-5	S Rect	60A	500PIV	6.70
580-5350	60HFR50	DO-5	S Rect	60A	500PIV	6.70
580-5360	60HF60	DO-5	S Rect	60A	600PIV	7.62
580-5370	60HFR60	DO-5	S Rect	60A	600PIV	7.62
580-5380	70H5A	DO-5	S Rect	70A	50PIV	3.68
580-5390	70HR5A	DO-5	S Rect	70A	50PIV	3.68
580-5400	70H10A	DO-5	S Rect	70A	100PIV	4.39
580-5410	70HR10A	DO-5	S Rect	70A	100P.V	4.39
580-5420	70H15A	DO-5	S Rect	70A	150PIV	5.20
580-5430	70HR15A	DO-5	S Rect	70A	150PIV	5.20
580-5440	70H20A	DO-5	S Rect	70A	200PIV	5.83
580-5450	70HR20A	DO-5	S Rect	70A	200PIV	5.83
580-5460	70H25A	DO-5	S Rect	70A	250PIV	6.47
580-5470	70HR25A	DO-5	S Rect	70A	250PIV	6.47
580-5480	70H30A	DO-5	S Rect	70A	300PIV	7.11
580-5490	70HR30A	DO-5	S Rect	70A	300PIV	7.11
580-5500	70H40A	DO-5	S Rect	70A	400PIV	8.37
580-5510	70HR40A	DO-5	S Rect	70A	400PIV	8.37
580-5520	70H50A	DO-5	S Rect	70A	500PIV	9.70
580-5530	70HR50A	DO-5	S Rect	70A	500PIV	9.70
580-5540	70H60A	DO 5	S Rect	70A	600PIV	10.98
580-5550	70HR60A	DO-5	S Rect	70A	600PIV	10.98
580-5560	70H70A	DO-5	S Rect	70A	700PIV	12.24
580-5570	70HR70A	DO-5	S Rect	70A	700PIV	12.24
580-5580	70H80A	DO-5	S Rect	70A	800PIV	13.86
580-5590	70HR80A	DO-5	S Rect	70A	800PIV	13.86
580-5600	70H90A	DO-5	S Rect	70A	900PIV	15.48
580-5610	70HR90A	DO-5	S Rect	70A	900P.V	15.48
580-5620	70H100A	DO-5	S Rect	70A	1000PIV	17.09
580-5630	70HR100A	DO-5	S Rect	70A	1000PIV	17.09
580-5640	71RA50	TO-94	SCR	70A	500PIV	43.01
580-5650	71RA60	TO-94	SCR	70A	600PIV	47.91
580-5660	71RA80	TO-94	SCR	70A	800PIV	59.90
580-5670	71RA100	TO-94	SCR	70A	1000PIV	71.89
580-5680	71RA120	TO-94	SCR	70A	1200PIV	82.78
580-5690	71RC5A	TO-94	SCR	70A	50PIV	21.34
580-5700	71RC10A	TO-94	SCR	70A	100PIV	22.88
580-5710	71RC15A	TO-94	SCR	70A	150PIV	24.81
580-5720	71RC20A	TO-94	SCR	70A	200PIV	26.95
580-5730	71RC25A	TO-94	SCR	70A	250PIV	28.88
580-5740	71RC30A	TO-94	SCR	70A	300PIV	31.41
580-5750	71RC40A	TO-94	SCR	70A	400PIV	37.18
580-5760	71RC50A	TO-94	SCR	70A	500PIV	38.83
580-5770	71RC60A	TO-94	SCR	70A	600PIV	43.29
580-5780	71RC80A	TO 94	SCR	70A	800PIV	58.47
580-5880	101RA10	TO-93	SCR	100A	100PIV	42.74
580-5890	101RA20	TO 93	SCR	100A	200PIV	45.60
580-5900	101RA40	TO-93	SCR	100A	400PIV	52.91
580-5910	101RA50	TO 93	SCR	100A	500PIV	58.30
580-5920	10.RA60	TO 93	SCR	100A	600PIV	65.84
580-5930	101RA80	TO-93	SCR	100A	800P.V	89.10
580-5940	101RA100	TO-93	SCR	100A	1000PIV	105.71
580-5950	101RA110	TO-93	SCR	100A	1100PIV	111.87
580-5960	101RA120	TO-93	SCR	100A	1200PIV	120.84
580-5970	101RC10	TO 93	SCR	100A	100PIV	41.36
580-5980	101RC20	TO-93	SCR	100A	200PIV	44.28
580-5990	101RC30	TO-93	SCR	100A	300PIV	37.30
580-6000	101RC40	TO-93	SCR	100A	400PIV	50.71
580-6010	101RC50	TO-93	SCR	100A	500PIV	57.79
580-6020	101RC60	TO-93	SCR	100A	600PIV	65.84
580-6030	101RC80	TO-93	SCR	100A	800PIV	81.79
580-6040	150K5A	DO 8	S Rect	150A	50PIV	18.37
580-6050	150KR5A	DO-8	S Rect	150A	50PIV	18.37
580-6060	150K10A	DO-8	S Rect	150A	100PIV	18.92
580-6070	150KR10A	DO-8	S Rect	150A	100PIV	18.92
580-6080	150K15A	DO-8	S Rect	150A	150PIV	22.66
580-6090	150KR15A	DO-8	S Rect	150A	150PIV	22.66
580-6100	150K20A	DO 8	S Rect	150A	200PIV	25.03
580-6110	150KR20A	DO-8	S Rect	150A	200PIV	25.03
580-6120	150K25A	DO-8	S Rect	150A	250PIV	27.50
580-6130	150KR25A	DO-8	S Rect	150A	250PIV	27.50
580-6140	150K30A	DO 8	S Rect	150A	300PIV	28.82
580-6150	150KR30A	DO-8	S Rect	150A	300PIV	28.82
580-6160	150K40A	DO-8	S Rect	150A	400PIV	30.25
580-6170	150KR40A	DO-8	S Rect	150A	400PIV	30.25
580-6180	150K50A	DO-8	S Rect	150A	500P V	31.85
580-6190	150KR50A	DO-8	S Rect	150A	500PIV	31.85
580-6200	150K60A	DO-8	S Rect	150A	600PIV	33.50
580-6210	150KR60A	DO-8	S Rect	150A	600PIV	33.50
580-6220	150K70A	DO-8	S Rect	150A	700PIV	35.15
580-6230	150KR70A	DO 8	S Rect	150A	700PIV	35.15
580-6240	150K80A	DO-8	S Rect	150A	800PIV	37.62
580-6250	150KR80A	DO-8	S Rect	150A	800PIV	37.62
580-6260	150K90A	DO-8	S Rect	150A	900PIV	40.15
580-6270	150KR90A	DO-8	S Rect	150A	900PIV	40.15
580-6280	150K100A	DO-8	S Rect	150A	1000PIV	44.28
580-6290	150KR100A	DO-8	S Rect	150A	1000PIV	44.28
580-6320	150L5A	DO-30	S Rect	150A	50PIV	18.70
580-6330	150LR5A	DO-30	S Rect	150A	50PIV	18.70
580-6340	150L10A	DO-30	S Rect	150A	100P.V	19.25
580-6350	150LR10A	DO 30	S Rect	150A	100PIV	19.25
580-6360	150L15A	DO-30	S Rect	150A	150PIV	23.05
580-6370	150LR15A	DO-30	S Rect	150A	150PIV	23.05
580-6380	150L20A	DO-30	S Rect	150A	200PIV	25.41
580-6400	150LR20A	DO-30	S Rect	150A	200PIV	25.41
580-6410	150L25A	DO 30	S Rect	150A	250PIV	27.89
580-6420	150LR25A	DO-30	S Rect	150A	250PIV	27.89
580-6430	150L30A	DO-30	S Rect	150A	300PIV	29.15
580-6440	150LR30A	DO-30	S Rect	150A	300P.V	29.15
580-6450	150L40A	DO-30	S Rect	150A	400PIV	30.53
580-6460	150LR40A	DO-30	S Rect	150A	400PIV	30.53
580-6470	150L50A	DO-30	S Rect	150A	500PIV	32.18
580-6480	150LR50A	DO-30	S Rect	150A	500PIV	32.18
580-6490	150L60A	DO 30	S Rect	150A	600PIV	33.83
580-6500	150LR60A	DO-30	S Rect	150A	600PIV	33.83
580-6510	150L70A	DO-30	S Rect	150A	700PIV	35.42
580-6520	150LR70A	DO-30	S Rect	150A	700PIV	35.42
580-6530	150L80A	DO-30	S Rect	150A	800PIV	37.90
580-6540	150LR80A	DO-30	S Rect	150A	800PIV	37.90
580-6550	150L90A	DO-30	S Rect	150A	900PIV	40.43
580-6560	150LR90A	DO-30	S Rect	150A	900PIV	40.43
580-6570	150L100A	DO-30	S Rect	150A	1000PIV	44.58
580-6580	150LR100A	DO-30	S Rect	150A	1000PIV	44.55
580-6590	151RA10	TO 93	SCR	150A	100PIV	47.41
580-6600	151RA20	TO-93	SCR	150A	200PIV	50.71
580-6610	151RA40	TO-93	SCR	150A	400PIV	60.17
580-6620	151RA50	TO-93	SCR	150A	500PIV	63.91
580-6630	151RA60	TO-93	SCR	150A	600PIV	72.60
580-6640	151RA80	TO-93	SCR	150A	800PIV	101.42
580-6650	151RA100	TO-93	SCR	150A	1000PIV	118.64
580-6660	151RA110	TO-93	SCR	150A	1100PIV	125.13
580-6670	151RA120	TO-93	SCR	150A	1200PIV	134.31
580-6680	151RC10	TO-93	SCR	150A	100PIV	43.01
580-6750	151RC10A	TO-93	SCR	150A	100PIV	44.00
580-6690	151RC20	TO-93	SCR	150A	200PIV	45.60
580-6765	151RC20A	TO-93	SCR	150A	200PIV	46.70
580-6700	151RC30	TO-93	SCR	150A	300PIV	48.79
580-6770	151RC30A	TO-93	SCR	150A	300PIV	49.89
580-6710	151RC40	TO-93	SCR	150A	400PIV	51.98
580-6780	151RC40A	TO-93	SCR	150A	400PIV	53.08
580-6720	151RC50	TO-93	SCR	150A	500PIV	58.96
580-6790	151RC50A	TO-93	SCR	150A	500PIV	59.95
580-6730	151RC60	TO-93	SCR	150A	600PIV	67.10
580-6800	151RC60A	TO-93	SCR	150A	600PIV	68.20
580-6740	151RC80	TO 93	SCR	150A	800PIV	86.35
580-6810	151RC80A	TO-93	SCR	150A	800PIV	90.86
580-6820	300RA10	TO-118	SCR	300A	100PIV	59.29
580-6830	300RA20	TO-118	SCR	300A	200PIV	70.07
580-6840	300RA30	TO 118	SCR	300A	300PIV	81.95
580-6850	300RA40	TO 118	SCR	300A	400P.V	94.88
580-6860	300RA50	TO-118	SCR	300A	500PIV	123.42
580-6870	300RA60	TO-118	SCR	300A	600PIV	128.26
580-6880	300RA80	TO 118	SCR	300A	800PIV	152.52
580-6890	300RA100	TO-118	SCR	300A	1000PIV	175.73
580-6900	300RA110	TO 118	SCR	300A	1100PIV	187.55
580-6910	300RA120	TO-118	SCR	300A	1200PIV	203.72
580-6920	300U5A	DO-9	S Rect	300A	50PIV	22.55
580-6930	300UR5A	DO 9	S Rect	300A	50PIV	22.55
580-6940	300U10A	DO-9	S Rect	300A	100PIV	24.20
580-6950	300UR10A	DO-9	S Rect	300A	100P.V	24.20
580-6960	300U15A	DO-9	S Rect	300A	150P.V	25.03
580-6970	300UR15A	DO-9	S Rect	300A	150PIV	25.03
580-6980	300U20A	DO-9	S Rect	300A	200PIV	26.51
580-6990	300UR20A	DO-9	S Rect	300A	200PIV	26.51
580-7000	300U25A	DO-9	S Rect	300A	250PIV	28.05
580-7010	300UR25A	DO-9	S Rect	300A	250PIV	28.05
580-7020	300U30A	DO-9	S Rect	300A	300PIV	31.02
580-7030	300UR30A	DO 9	S Rect	300A	300PIV	31.02
580-7040	300U40A	DO-9	S Rect	300A	400PIV	34.32
580-7050	300UR40A	DO-9	S Rect	300A	400PIV	34.32
580-7060	300U50A	DO-9	S Rect	300A	500PIV	36.30
580-7070	300UR50A	DO-9	S Rect	300A	500PIV	36.30
580-7080	300U60A	DO-9	S Rect	300A	600PIV	38.50
580-7090	300UR60A	DO-9	S Rect	300A	600PIV	38.50
580-7100	300U70A	DO-9	S Rect	300A	700PIV	41.80
580-7110	300UR70A	DO-9	S Rect	300A	700PIV	41.80
580-7120	300U80A	DO-9	S Rect	300A	800PIV	44.66
580 7130	300UR80A	DO-9	S Rect	300A	800PIV	44.66
580-7140	300U90A	DO-9	S Rect	300A	900PIV	47.69
580-7150	300UR90A	DO-9	S Rect	300A	900PIV	47.69
580-7160	300U100A	DO-9	S Rect	300A	1000PIV	50.60
580-7170	300UR100A	DO-9	S Rect	300A	1000P V	50.60
580-7180	300U120A	DO-9	S Rect	300A	1200PIV	62.15
580-7190	300UR120A	DO-9	S Rect	300A	1200PIV	62.15

Integrated Circuit Directory

Stock No.	Type	Family	Circuit Function	Each
569-2900	CA3018	Linear	Transistor Array	2.08
569-2916	CA3046	Linear	5 Tran Array and Diff Pr	1.95
735-0003	LM380	TO-100	Dual Diff Amp	2.47
735-1000	LM1000	TO-72	Mixer	1.95
735 1001	LP1000	TO-100	Micro Transmitter	36.00
735-1002	LP2001	TO-100	Micro Transmitter	48.00
735-2000	LS170	TO-100	AGC/Squelch/VOX Amp	17.50
735-2002	LS270	TO-100	AGC/Squelch/VOX Amp	8.00
735-2003	LS271	TO-100	RF/IF Amplifier	4.50
735-2004	LS370	TO-100	AGC/Squelch/VOX Amp	4.50
735-2005	LS371	TO-100	RF/IF Amplifier	3.50
735-2001	LS1496	TO-100	Bal Modulator/Demod	1.48
735-2012	LS1595	Dip	Analog Multiplier	11.00
735-2013	LS1596	TO-100	Bal Modulator/Demod	3.97
735-2014	LS6000	Mini Dip	Dual Freq Divider	1.48
569-2716	UA78C08UIC	Linear	5A/8V Voltage Reg	1.38
569-2718	UA78C12UIC	Linear	5A/12V Voltage Reg	1.38
569-2720	UA78C15UIC	Linear	5A 15V Voltage Reg	1.38
569-2722	UA78C24UIC	Linear	5A/24V Voltage Reg	1.38
569-2724	UA78C8KC	Linear	2A/13.8V Voltage Reg	4.50
569-2726	UA78C8UC	Linear	2A/13.8V Voltage Reg	3.75
569-2728	UA78GKC	Linear	1A Adj Pos Reg	3.25
569-2730	UA78GUIC	Linear	1A Adj Pos Reg	2.50
569-2731	UA78H05SC	Hybrid	5A/5V Reg	11.00
569-2732	UA78H12KC	Hybrid	5A/12V Reg	11.00
569-2733	UA78H15KC	Hybrid	5A 15V Reg	11.00
569-2734	UA78HGKC	Hybrid	5A/15V Reg	11.00
569-2735	UA78L05AWC	Linear	5V±5% 70MA TO-39 Reg	.57
569-2740	UA78L12AWC	Linear	12V±5% 70MA TO-92 Reg	.57
569-2745	UA78MGT2C	Linear	4 Term Pos Volt Reg	2.25
569-2747	UA78MGUIC	Linear	.5A ADJ Neg Reg	2.25
569-2750	UA78M05AUC	Linear	5V 500MA TO-220 Reg	1.63
569-2755	UA78M06UC	Linear	6V 500 MA TO-220 Reg	1.63
569-2760	UA78M12UC	Linear	12V 500 MA TO-220 Reg	1.63
569-2761	UA78M15UC	Linear	.5A/15V Pos Reg	1.63
569-2762	UA78M24UC	Linear	.5A/24V Pos Reg	1.63
569-2764	UA79GKC	Linear	1A Adj Neg Reg	3.75
569-2765	UA79GUIC	Linear	1A Adj Neg Reg	2.88
569-2770	UA79MGT2C	Linear	4 Term Neg Volt Reg	2.25
569-2772	UA79MGUIC	Linear	.5A Adj Volt Reg	2.25
569-2775	UA79M05AUC	Linear	3 Term Neg Volt Reg	2.38
569-2777	UA79M08AUC	Linear	3 Term Neg Volt Reg	2.38
569-2780	UA79M12AUC	Linear	3 Term Neg Volt Reg	2.38
569-2785	UA79M15AUC	Linear	3 Term Neg Volt Reg	2.38
569-2790	UA79M24AUC	Linear	3 Term Neg Volt Reg	2.38
569-1321	UA301ADC	Linear	General Purpose Op Amp	1.88
569-1322	UA301AHC	Linear	General Purpose Op Amp	1.13
569-1323	UA301ATC	Linear	General Purpose Op Amp	.90
569-1328	A741CN	Linear	General Purpose Op Amp	.88
569-1329	UA307TC	Linear	General Purpose Op Amp	.75
569-1330	UA308HC	Linear	Super Beta Op Am	1.25
569R1278	UA309KC	Linear	5V Regulator	3.38
569-1333	UA311HC	Linear	Voltage Comparator	1.50
569-0555	UA555TC	Linear	Single Timer	1.21
569-0556	UA556PC	Linear	Dual Timer	2.38
569-1580	UA709DC	Linear	General Purpose Op Amp	1.18
569-1540	UA709HC	Linear	General Purpose Op Amp	1.13
569-1660	LA710DC	Linear	Hi Speed Comparator	1.50
569-1730	A720DC	Linear	AM Rad. Systems	2.43
569R1750	UA723DC	Linear	Voltage Regulator	2.93
569-1760	UA723HC	Linear	Voltage Regulator	2.93
569-1840	UA725HC	Linear	Instrumentation Op Amp	7.75
569-2040	UA739DC	Linear	Dual L/N Audio Preamp	5.75
569-2045	UA739PC	Linear	Dual L/N Audio Preamp	2.75
569-2060	UA740EHC	Linear	FET Op Amp	14.93
569R2145	UA741DC	Linear	Freq Comp Op Amp	1.25
569R2100	UA741HC	Linear	Freq Comp Op Amp	1.20
552-1400	UA741PC	Linear	Freq Comp Op Amp	1.00
569R2160	UA741TC	Linear	Freq Comp Op Amp	.75
569-2164	UA742DC	Linear	Zero Crossing AC Trig	4.25
569-2240	UA747DC	Linear	Dual Freq Comp Op Amp	8.50
569-2270	UA748DC	Linear	Hi Perf Op Amp	2.00
569-2443	UA760DC	Linear	High Speed Comparator	6.28
569-2700	UA796HC	Linear	Double Bal MOD/Demod	2.25
551-7914	UA1458HC	Linear	Dual Hi Perf Op Amp	1.75
551-7916	UA1458TC	Linear	Dual Hi Perf Op Amp	1.50
569-4136	UA4136PC	Linear	Quad Op Amp	1.80
569-2799	UA7805KC	Linear	5V TO-3 Volt Reg	3.18
569R2800	UA7805UC	Linear	5V TO-220 Regulator	1.90
569-2810	UA7806UC	Linear	6V TO-220 Regulator	2.00
569-2820	UA7808UC	Linear	8V TO-220 Voltage Reg	2.00
569-2829	UA7812KC	Linear	12V TO-3 Voltage Reg	3.18
569R2830	UA7812UC	Linear	12V TO-220 Regulator	1.90
569-2840	UA7815UC	Linear	15V TO-220 Regulator	1.90
569-2850	UA7824UC	Linear	24V TO-220 Regulator	2.00
569-3000	UA7905KC	Linear	1A/5V Neg Reg	4.13
569-2860	UA7905UC	Linear	1 Amp Neg Reg 5V	2.88
569-3020	UA7912KC	Linear	1A/12V Neg Reg	4.13
569-2870	UA7912UC	Linear	1 Amp Neg Reg 12V	2.88
569-3040	UA7915KC	Linear	1A/15V Neg Reg	4.13
569-2880	UA7915UC	Linear	1 Amp Neg Reg 15V	2.88
569-3055	UA7924KC	Linear	1A/24V Neg Reg	4.13
569-2890	UA7924UC	Linear	1 Amp Neg Reg 24V	2.88
570-8000	74H00PC	TTL SSI	Quad 2 Gate	.63
570-8001	74H01PC	TTL SSI	Quad 2 Gate Open Coll	.63
570-8004	74H04PC	TTL SSI	Hex Inverter	.73
570-8005	74H05PC	TTL SSI	Hex Inverter Open Coll	.73
570-8008	74H08PC	TTL SSI	Quad 2 and Gate	.73
570-8010	74H10PC	TTL SSI	Triple 3 Gate	.63
570 8011	74H11PC	TTL SSI	Triple 3 and Gate	.73
570-8020	74H20PC	TTL SSI	Dual 4 Nand Gate	.63
570-8021	74H21PC	TTL SSI	Dual 4 and Gate	.63
570-8022	74H22PC	TTL SSI	Dual 4 Nand Gate O/C	.63
570-8030	74H30PC	TTL SSI	Single 8 Gate	.63
570-8040	74H40PC	TTL SSI	Dual 4-Buffer	.75
570-8050	74H50PC	TTL SSI	Dual 2W 2 Input AO1/Exp	.63
570-8051	74H51PC	TTL SSI	Dual 2 Wide/2 Input AO1	.63
570-8052	74H52PC	TTL SSI	4W 2-2-2-3 Input AO1	.63
570-8053	74H53PC	TTL SSI	Exp 4-W 2-In Inverter	.63
570-8054	74H54PC	TTL SSI	2 2 2 3 AO1 Gate	.63
570-8055	74H55PC	TTL SSI	4 Wide 2 Input Expander	.63
570-8060	74H60PC	TTL SSI	Dual 4 Expander	.63
570-8061	74H61PC	TTL SSI	Triple 3 Expander	.63
570-8062	74H62PC	TTL SSI	4 W 3 2 2 3 In Expander	.63
570-8071	74H71PC	TTL SSI	JKMS Flip Flop	1.28
570-8072	74H72PC	TTL SSI	JKFF With And Inputs	1.12
570-8073	74H73PC	TTL SSI	Dual JK F/F Neg Trig	1.15
570-8074	74H74PC	TTL SSI	Dual D Type FF	1.15
570-8076	74H76PC	TTL SSI	Dual J K M S FF	1.50

Stock No	Type	Family	Circuit Function	Each
570-8078	74H78PC	TTL SSI	Dual JK FF (Com Clock)	1.50
570-8103	74H103PC	TTL SSI	50 MHz Dual JK Flip Flop	1.40
570-8106	74H106PC	TTL SSI	Dual JK Mstr JK FF	1.36
570-8108	74H108PC	TTL SSI	Dual JK 50 MH FF	1.34
570 8000	74LS00PC	TTL SSI	Quad 2 Input Nand Gate	.40
570-9002	74LS02PC	TTL/SSI	Quad 2 Nor Gate	.40
570-9003	74LS03PC	TTL/SSI	Quad 2 Nand Gate (OC)	.40
570-9004	74LS04PC	TTL/SSI	Hex Inverter	.44
570-9005	74LS05PC	TTL/SSI	Hex Inverter (OC)	.44
570-9008	74LS08PC	TTL/SSI	Quad 2 And Gate	.40
570-9009	74LS09PC	TTL/SSI	Quad 2 And Gate (OC)	.48
570-9010	74LS10PC	TTL/SSI	Triple 3 Nand Gate	.40
570-9011	74LS11PC	TTL/SSI	Triple 3 Nand Gate (OC)	.48
570-9013	74LS13PC	TTL/MSI	Dual 4 Inp Schmitt Trig	1.05
570-9014	74LS13PC	TTL/MSI	Hex Schmitt Trigger	1.58
570-9015	74LS15PC	TTL/SSI	Triple 3 And Gate (OC)	.48
570-9020	74LS20PC	TTL/SSI	Dual 4 Nand Gate	.40
570-9021	74LS21PC	TTL SSI	Dual 4 And Gate	.48
570-9022	74LS72PC	TTL SSI	Dual 4 Nand Gate (OC)	.48
570-9026	74LS26PC	TTL SSI	Quad 2 Nand (OC) 15V	.58
570-9027	74LS27PC	TTL/SSI	Triple 3 Nor Gate	.48
570-9028	74LS28PC	TTL/SSI	Quad 2-In Nor Buffer	.73
570-9030	74LS30PC	TTL/SSI	8-Input Nand Gate	.40
570-9032	74LS32PC	TTL/SSI	Quad 2 Or Gate	.42
570-9033	74LS33PC	TTL/SSI	Quad 2-In Nor Buffer (O/C)	.73
570-9037	74LS37PC	TTL/SSI	Quad 2-Nand Buffer	.58
570-9038	74LS38PC	TTL/SSI	Quad 2 Nand Buffer O/C	.58
570-9040	74LS40PC	TTL/SSI	Dual 4-Nand Buffer	.44
570-9042	74LS42PC	TTL/MSI	1 OF-10 Decoder	1.56
570-9051	74LS51PC	TTL SSI	Dual And Or Invert Gate	.40
570-9054	74LS54PC	TTL/SSI	2-3 3-2 Input AO1 Gate	.48
570-9055	74LS55PC	TTL/SSI	2 Wide 4-Input AO1 Gate	.48
570-9074	74LS74PC	TTL/SSI	Dual D Flip Flop	.62
570-9083	74LS83PC	TTL/MSI	4-Bit Binary Full Adder	1.75
570-9085	74LS85PC	TTL/MSI	4-Bit Mag Comp	.69
570-9086	74LS86PC	TTL/MSI	Quad Excl Or Gate	.69
570-9090	74LS90PC	TTL/MSI	Decade Counter	1.40
570-9092	74LS92PC	TTL/MSI	Divide By 12 Counter	1.68
570-9093	74LS93PC	TTL/MSI	4-Bit Binary Counter	1.68
570-9095	74LS95PC	TTL MSI	4 Bit Shift Reg	1.87
570-9109	74LS109PC	TTL/SSI	Dual Edge Trig FF	.75
570-9112	74LS112PC	TTL/SSI	Dual Var/Skew Flip Flop	.75
570-9113	74LS113PC	TTL/SSI	Dual Edge Trig FF	.75
570-9114	74LS114PC	TTL/SSI	Dual Edge Trig FF	.75
570-9125	74LS125PC	TTL/SSI	Quad 3-State Buffer	1.05
570-9126	74LS126PC	TTL/SSI	Quad 3-State Buffer	1.05
570-9132	74LS132PC	TTL/SSI	Quad 2 Input Schmitt GT	1.80
570-9133	74LS133PC	TTL/SSI	13 Input Nand Gate	.48
570-9136	74LS136PC	TTL/SSI	Quad Exclusive Or (OC)	.83
570-9138	74LS138PC	TTL MSI	1 of 8 Decoder Demplx	1.87
570-9139	74LS139PC	TTL/MSI	Dual 1-4 Dec/Demplxr	2.25
570-9151	74LS151PC	TTL/MSI	8 Input Mplxr	1.66
570-9153	74LS153PC	TTL/MSI	Dual 4 Input Mplx	2.00
570-9155	74LS155PC	TTL/MSI	Dual 1 OF 4 Decoder	2.25
570-9156	74LS156PC	TTL/MSI	Dual 1 of 4 Decoder O/C	2.25
570-9157	74LS157PC	TTL MSI	Quad 2 Input Mx Non Inv.	1.75
570-9158	74LS158PC	TTL/MSI	Quad 2 Input Mplx Inv.	1.90
570-9160	74LS160PC	TTL/MSI	BCD-Dec Ctr Asyn Rst	2.18
570-9161	74LS161PC	TTL/MSI	4-Bit Bin Ctr Asy Reset	2.18
570-9162	74LS162PC	TTL/MSI	BCD Ctr Sync Reset	2.18
570-9163	74LS163PC	TTL/MSI	4 Bit Bin Ctr Sync Reset	2.18
570-9165	74LS165PC	TTL/MSI	8-Bit Piso Shift Reg	1.85
570-9168	74LS168PC	TTL/MSI	Up/Down Decade Ctr	2.50
570-9169	74LS169PC	TTL/MSI	Up/Down Binary Ctr	2.50
570-9170	74LS170PC	TTL/MSI	4-By-4 Register File	4.88
570-9173	74LS173PC	TTL/MSI	4-Bit D-Register 3 State	2.08
570-9174	74LS174PC	TTL/MSI	Hex D F/F W/Clear	1.87
570-9175	74LS175PC	TTL/MSI	Quad D FF W/Clear	1.87
570-9181	74LS181PC	TTL/MSI	4-Bit Alu	5.26
570-9190	74LS190PC	TTL/MSI	Up/Down Decade Counter	3.12
570-9191	74LS191PC	TTL MSI	Up/Down Binary Counter	3.12
570-9192	74LS192PC	TTL MSI	Up/Down Decade Counter	2.39
570-9193	74LS193PC	TTL/MSI	Up/Down Binary Counter	2.39
570-9194	74LS194PC	TTL/MSI	4 Bit R/L Shift Reg	1.87
570-9195	74LS195PC	TTL MSI	4 Bit Shift Reg	1.87
570-9196	74LS196PC	TTL/MSI	Decade Counter	2.25
570-9197	74LS197PC	TTL/MSI	4 Bit Binary Counter	2.25
570-9251	74LS251PC	TTL/MSI	8 Input Mplxr 3 State	1.87
570-9253	74LS253PC	TTL/MSI	Dual 4 Input Mplx 3 S	1.87
570-9257	74LS257PC	TTL/MSI	Quad 2 Input Mplx 3 S	1.91
570-9258	74LS258PC	TTL/MSI	Quad 2 Input Mplx 3 S	2.02
570-9259	74LS259PC	TTL/MSI	8-Bit Address Latch	5.38
570-9260	74LS260PC	TTL/SSI	Dual 5-Input Nor Gate	.48
570-9266	74LS266PC	TTL/SSI	Quad Exclusive Nor O/C	.83
570-9273	74LS273PC	TTL/MSI	8 Bit D-Type Register	3.50
570-9279	74LS279PC	TTL/SSI	Quad S-R Latch	1.05
570-9283	74LS283PC	TTL/MSI	4-Bit Binary Full Adder	1.75
570-9290	74LS290PC	TTL/MSI	Decade Counter	1.88
570-9293	74LS293PC	TTL/MSI	4-Bit Binary Counter	1.88
570-9295	74LS295PC	TTL/MSI	4 Bit Shift Reg	2.63
570-9298	74LS298PC	TTL/MSI	Quad 2 Input Mplx W D L	2.18
570-9365	74LS365PC	TTL/MSI	Hex Buffer 3 St Com Enb	1.05
570-9366	74LS366PC	TTL/MSI	Hex Inv 3 St Common	1.05
570-9367	74LS367PC	TTL/MSI	Hex Buf 3-S 4 Bit & 2 Bit	.87
570-9368	74LS368PC	TTL/MSI	Hex Inv 3 St 4 Bit & 2 Bit	1.05
570-9377	74LS377PC	TTL/MSI	8 Bit D Type Register	3.50
570 9378	74LS378PC	TTL MSI	Hex D F/F Flip	1.25
570-9390	74LS390PC	TTL-MSI	Dual Decade Ctr	3.85
570-9393	74LS393PC	TTL/MSI	Dual 4 Bit Binary Cntr	3.12
570-9395	74LS395PC	TTL/MSI	4 Bit S R (3 State)	2.75
570-9490	74LS190PC	TTL MSI	Dual Decade Ctr	4.15
570-9670	74LS670PC	TTL MSI	4 By 4 Reg File 3 State	5.63
551 9422	930DC	DTL	Dual 4 Gate/Exp	.93
551-9426	932DC	DTL	Dual 4 Buffer	1.04
551-9432	936DC	DTL	Hex Inverter	1.09
551-9434	937DC	DTL	Hex Inverter Gate	1.09
551-9440	945DC	DTL	RS Clocked FF	1.26
551 9442	946DC	DTL	Quad 2 Gate	1.03
551-9394	960DC	CUL	Buffer Decoder	15.70
551-9397	962DC	DTL	Triple 3 Gate	1.03
569-9040	3539DC	MOS ISO	256x8 Bit St Ram 650NS	13.50
569-3401	4001BPC	CMOS	Quad 2 Input Nor Gate	.53
569 3402	4002BPC	CMOS	Dual 4 Input Nor Gate	.48
569-3406	4006BPC	CMOS	18 Stage Shift Register	2.25
569-3407	4007UBPC	CMOS	Dual Comp 1 Pr and Inv	.48
569-3408	4008BPC	CMOS	4 Bit Full Adder	2.13
569-3411	4011BPC	CMOS	Quad 2 Input NAND Gate	.53
569-3412	4012BPC	CMOS	Dual 4 Input NAND Gate	.48
569-3413	4013BPC	CMOS	Dual Type D Flip Flop	1.13
569 3414	4014BPC	CMOS	8 Stage Shift Register	2.25
569-3415	4015BPC	CMOS	Dual 4 Stg Shift Register	2.25
569-3416	4016BPC	CMOS	Quad Bilateral Switch	1.13
569-3417	4017BPC	CMOS	Decade Sequencer	2.25
569-3418	4018BPC	CMOS/M	Divide By N Cntr	2.25
569-3419	4019BPC	CMOS	Quad 2 Input Mplxr	1.38

Stock No	Type	Family	Circuit Function	Each
569-3420	4020BPC	CMOS	14 Stage Timer	2.80
569-3421	4021BPC	CMOS	8 Stage Shift Register	2.25
569-3423	4023BPC	CMOS	Triple 3-Input NAND	.53
569-3424	4021BPC	CMOS	7 Stage Binary Counter	1.46
569-3425	4025BPC	MOS	Triple 3-Input Nor Gate	.48
569-3427	4027BPC	CMOS	Dual JK Flip-Flop	1.35
569-3428	4028BPC	CMOS	BCD/Decimal Decoder	2.00
569-3429	4029BPC	CMOS	4-Bit Up/Down Counter	2.50
569-3430	4030BPC	CMOS	Quad Exclusive Or Gate	1.35
569 3435	4035BPC	CMOS	4 Bit Parallel In Out Reg	2.63
569-3440	4040BPC	CMOS	12 Stage Timer	2.00
569-3441	4041BPC	CMOS	QD True/Comp Buffer	2.75
569-3442	4042BPC	CMOS	Quad D-Latch	2.28
569-3443	4043BPC	CMOS	Quad 3 State R/S Latch	2.25
569-3444	4044BPC	CMOS	Quad 3 State R Latch	2.25
569-3449	4049BPC	CMOS	Hex Inverter Buffer	1.13
569-3450	4050BPC	CMOS	Hex Noninverting Buffer	1.13
569-3451	4051BPC	CMOS	8 Input Analog Mplxr	1.66
569-3452	4052BPC	CMOS	Dlf 4 Input Analog Mult	1.66
569-3466	4066BPC	CMOS	Quad Bilateral Switch	1.35
569-3468	4068BPC	CMOS	8-Input NAND	.63
569-3469	4069UBPC	CMOS	Hex Inverter	.53
569-3470	4070BPC	CMOS	Quad Exclusive Or	.63
569-3471	4071BPC	CMOS	Quad 2-Input Or Gate	.63
569-3476	4076BPC	CMOS	Quad D F/F 3-State	3.43
569-3477	4077BPC	CMOS	Quad Exclusive Nor	.63
569-3478	4078BPC	CMOS	8-Input Nor	.63
569-3481	4081BPC	CMOS	Quad 2 Input And Gate	.63
569-3485	4085BP	CMOS	Quad 2 Wide 2 Input AO	1.35
569-3486	4086BPC	CMOS	Exp 4 Wide 2 Input AO	1.35
569-3504	4104BPC	CMOS	CMOS Level Converter	4.63
569-3755	4510BPC	CMOS	BCD Up/Down Counter	2.50
569-4000	4512BPC	CMOS	8-Input Multiplexer	1.75
569-3760	4516BPC	CMOS	Binary Up/Down Counter	2.50
569-3765	4518BPC	CMOS	Dual 4 Bit Decade Ctr	2.80
569-3770	4520BPC	CMOS	Dual 4 Bit Binary Ctr	2.80
569-3775	4528BPC	CMOS	Dual One Shot	2.00
569-3980	4539BPC	CMOS	Dual 4 Input Mplx	2.00
569-3985	4555BPC	CMOS	Dual 1 of 4 DCDR (High)	1.25
569-3990	4556BPC	CMOS	Dual 1 of 4 DCDR (Low)	1.25
569-3995	4582BPC	CMOS/M	Carry Look Ahead Block	3.28
569-4005	4702BPC	CMOS	Bit Rate Generator	13.88
569-4002	4703BPC	CMOS/L	16x4 FIFO	14.20
569-4003	4704BPC	CMOS/L	Data Path SW	13.20
569-4004	4705BPC	CMOS/L	ALRS	23.04
569-4007	4706BPC	CMOS/L	Prog Stack	16.27
569-4008	4707BPC	CMOS/L	Data Access Reg	12.24
569-4009	4710BPC	CMOS/L	R Stack	11.05
569-4010	4720BPC	CMOS	256 Bit RAM	14.38
569-4011	4724BPC	CMOS	Dual 4 Bit Addressable Latch	2.75
569-4012	4725BPC	CMOS-M	16x4 RAM	8.40
569-4013	4731BPC	CMOS	Quad 64 Bit Shift Reg	21.38
551-9500	7400DC	TTL/SSI	Quad 2 Gate	.75
551R9501	7400PC	TTL/SSI	Quad 2 Gate	.55
551-9502	7401DC	TTL/SSI	Quad 2 Gate/Open Coll	.75
551-9503	7401PC	TTL/SSI	Quad 2 Gate/Open Coll	.55
551-9504	7402DC	TTL/SSI	Quad 2 NOR Gate	.75
570R7147	7402PC	TTL/SSI	Quad 2 NOR Gate	.55
551-9506	7403PC	TTL/SSI	Quad 2 Gate/Open Coll	.55
551-9507	7404DC	TTL/SSI	Hex Inverter	.93
551R9508	7404PC	TTL/SSI	Hex Inverter	.70
551-9509	7405DC	TTL/SSI	Hex Inv/Open Collector	.93
551-9510	7405PC	TTL/SSI	Hex Inv/Open Collector	.70
551-9512	7406PC	TTL/SSI	30V Hex Inv/Driver	1.50
551-9514	7407PC	TTL/SSI	30V Hex Buffer/Driver	1.50
551-9515	7408DC	TTL/SSI	Quad 2 And Gate	.98
551-9516	7408PC	TTL/SSI	Quad 2 And Gate	.60
551-9519	7410DC	TTL/SSI	Triple 3 Gate	.75
551-9520	7410PC	TTL/SSI	Triple 3 Gate	.55
551-9522	7411PC	TTL/SSI	Triple 3 And Gate	.60
570-7154	7413DC	TTL/SSI	Dual 4 Schmitt Trigger	2.50
551-9523	7413PC	TTL/SSI	Dual 4 Schmitt Trigger	.73
551-9525	7416PC	TTL/SSI	15V Hex Inv/Driver	2.70
551-9528	7420DC	TTL/SSI	Dual 4 Gate	.75
551-9529	7420PC	TTL/SSI	Dual 4 Gate	.55
551-9532	7430DC	TTL/SSI	Single 8 Gate	.75
551-9533	7430PC	TTL/SSI	Single 8 Gate	.55
570-7194	7432PC	TTL/SSI	Quad 2-Input NOR Gate	.80
551-9535	7437PC	TTL/SSI	Quad 2 Buffer	1.15
551-9538	7440DC	TTL/SSI	Dual 4 Buffer	.75
551-9540	7440PC	TTL/SSI	Dual 4 Buffer	.55
570-7196	7441DC	TTL/MSI	BCD/DEC Decoder/Driver	2.87
570-7197	7441PC	TTL/MSI	BCD-DEC Decoder/Driver	2.21
570-7198	7442DC	TTL/MSI	1 of 10 Decoder	2.60
570-7199	7442PC	TTL/MSI	1 of 10 Decoder	1.00
570-7209	7447PC	TTL/MSI	BCD-7 Seg Decoder	1.85
551-9564	7470PC	TTL/SSI	J-K Flip Flop	1.00
551-9568	7472PC	TTL/SSI	J-K M S FF (and inputs)	.93
551-9570	7473DC	TTL/SSI	Dual J-K M-S FF	1.95
551-9571	7473PC	TTL/SSI	Dual J-K M-S FF	.88
551-9574	7474DC	TTL/SSI	Dual D-Type FF	1.65
551-9576	7474PC	TTL/SSI	Dual D-Type FF	.88
570-7212	7475DC	TTL/MSI	Quad Latch	1.60
570-7213	7475PC	TTL/MSI	Quad Latch	.80
551-9578	7476DC	TTL/SSI	Dual J-K M S Pos Trig	2.05
551-9580	7476PC	TTL/SSI	Dual J-K M-S/P and C	1.05
551-9584	7486PC	TTL/SSI	Quad Exclusive Or	.90
570-7220	7490DC	TTL/MSI	Decade Counter	1.81
570R7221	7490PC	TTL/MSI	Decade Counter	.81
570-7224	7492DC	TTL/MSI	Divide by 12 Ctr	1.79
570-7225	7492PC	TTL/MSI	Divide By 12 Ctr	.81
570-7227	7493PC	TTL/MSI	4-Bit Binary Ctr	.81
551-8980	5300DC	TTL/MSI	4-Bit Univ Reg	2.84
551-9032	9322DC	TTL/MSI	Quad 2-Input Mplxr	2.23
570-7322	9368DC	TTL/MSI	FND-70 Driver/Latch	3.50
551-9178	9601DC	TTL/INT	Retriggerable 1 Shot	4.40
551-9180	9601PC	TTL/INT	Retriggerable 1 Shot	1.85
570-7374	9602PC	TTL/INT	Dual Retriggerable 1 Shot	3.00
569-4014	40085BPC	CMOS	4-Bit Mag Comparator	1.88
569-4015	40097BPC	CMOS	Hex 3 State Non 1 Buffer	1.48
569-4020	40098BPC	CMOS	Hex 3 State Inverter Buffer	1.48
569-4025	40160BPC	CMOS	4 Bit Decade Counter	2.00
569-4030	40161BPC	CMOS	4 Bit Binary Counter	2.80
569-4035	40162BPC	CMOS	4-Bit Decade Counter	2.00
569-4040	40163BPC	CMOS	4 Bit Binary Counter	2.00
569-4045	40174BPC	CMOS	Hex D Flip/Flop	1.88
569-4050	40175BPC	CMOS	Quad Flip Flop	1.88
569-4055	40192BPC	CMOS	4-Bit Up/Down Syn Dec Ctr	2.80
569-4060	40193BPC	CMOS	4 Bit Up/Down Syn Bin Ctr	2.80
569-4065	40194BPC	CMOS	4 Bit Right Shift Reg	1.88
569-4070	40195BPC	CMOS	4-Bit Shift Register	1.88
570-7152	74121DC	TTL/INT	One Shot Multivi Rator	1.73
570-7153	74121PC	TTL/INT	One-Shot Multivi Rator	.83
570-7184	74192PC	TTL/MSI	Up/Down Decade Counter	1.79
570-7186	74193PC	TTL/MSI	Up/Down Binary Counter	1.79

Voltage Regulators

INTEGRATED CIRCUITS


Mini DIP


TO-220 Package


TO-3 Pkg.


μA78C Power Tab


Power Tab


TO-92

μA78M POSITIVE VOLTAGE REGULATORS

Medium current 3-terminal fixed regulators can deliver in excess of 500 mA output current (if adequate heat sinking is provided). Constructed using planar epitaxial process. Internal current limiting, thermal shutdown and safe area compensation. For wide range of applications, including local or on card regulation. In TO-220 package. Operating Temp.: 0° to +150°C. Lead Temp for soldering: 230°C, 10-sec. time limit. Input Voltage: 35V except *40V.

Stock No.	Mfr's Type	Out. V	EA.	Stock No.	Mfr's Type	Out. V	EA.
569-2750	μA78M05UC	5	1.63	569-2761	μA78M15UC	15	1.63
569-2755	μA78M06UC	6	1.63	.....	.....	...	.
569-2780	μA78M12UC	12	2.38	569-2762	μA78M24UC	24*	1.63

μA79M NEGATIVE VOLTAGE REGULATORS

Medium current 3-terminal fixed negative regulators in TO-220 package, constructed using planar epitaxial process. Internal current limiting; thermal shutdown; safe area compensation. Can provide up to 500 mA output current (with adequate heat sinking). Operating Temp.: 0° to +150°C. Lead Temp. for soldering: 230°C with 10-second time limit. Input Voltage: −35V except *40V.

Stock No.	Mfr's Type	Out. V	EA.	Stock No.	Mfr's Type	Out. V	EA.
569-2775	μA79M05AUC	-5	2.38	569-2785	μA79M15AUC	-15	2.38
569-2777	μA79M08AUC	-8	2.38	569-2790	μA79M24AUC	-24*	2.38
569-2780	μA79M12AUC	-12	2.38	.....	.....		

μA7800 POSITIVE VOLTAGE REGULATORS

Monolithic fixed 3-terminal regulators constructed using epitaxial process. Integral current limiting, thermal shutdown and safe area compensation. Can deliver over 1A output current. Can be used with external components to obtain adjustable output voltages and currents. Oper. Temp.: 0° to +150°C. Input Voltage: 35 volts except 24-volt type has 40-volt input.

Output Volts	TO-220 Package			TO-3 Package		
	Stock No.	Type	EA.	Stock No.	Type	EA.
5	569-2800	μA7805UC	1.90	569-2799	μA7805KC	3.18
6	569-2810	μA7806UC	2.00	.....	.....	....
8	569-2820	μA7808UC	2.00	.....	.....	....
12	569-2830	μA7812UC	1.90	569-2829	μA7812KC	3.18
15	569-2840	μA7815UC	1.90	.....	.....	....
24	569-2850	μA7824UC	2.00	.....	.....	....

μA7900 NEGATIVE VOLTAGE REGULATORS

Monolithic 3-terminal negative regulators, intended as complements to popular μA7800 series positive regulators (above). Employ internal current limiting, output transistor safe area compensation and thermal shutdown. Output current in excess of 1A. Input Voltage: -35V except 24-volt types, −40V. Lead Temp. for Soldering: TO-3, 300°, 60-sec. limit; TO-220, 230°C, 10-sec

Output Volts	TO-220 Package			TO-3 Package		
	Stock No.	Type	EA.	Stock No.	Type	EA.
-5	569-2860	μA7905UC	2.88	569-3000	μA7905KC	4.13
-12	569-2870	μA7912UC	2.88	569-3020	μA7912KC	4.13
-15	569-2880	μA7915UC	2.88	569-3040	μA7915KC	4.13
-24	569-2890	μA7924UC	2.88	569-3055	μA7924KC	4.13

μA78CB POSITIVE 13.8V, 2-AMP VOLTAGE REGULATORS

Monolithic 3-terminal positive regulator with 13.8V nominal output. Can deliver output current in excess of 2.0A. Intended for home base CB stations, and power supplies for driving automotive accessories directly from AC line through a transformer, full-save rectifier and filter capacitor. Employs current limiting, thermal shutdown and safe area compensation. No external components 20-watt power dissipation. Operating Temp.: 0° to +150°C.

Stock No.	Mfr's Type	Pkg.	Typ. Output Volts	Peak Output Curr.	Max. Input Volts	EACH
569-2726	μA78CBUC	TO-220	13.8	3.3A	35	3.75
569-2724	μA78CBKC	TO-3	13.8	3.3A	35	4.50

μA78C LOW-COST POSITIVE REGULATORS

Designed to meet the special environmental reliability and low drift requirements for high volume consumer product applications. On-card regulation eliminates the distribution problems associated with a central power supply. Constructed using planar process. Internal current limiting, thermal shutdown and safe area compensation. Output current in excess of 0.5A. Line/load regulation: 0.5%. Max. dropout voltage: 2.5VDC. Series μA78C (3-term.) is fixed type, available in six voltages.

Stock No.	Mfr's Type	Output Volts	Min. Curr.	Power Tab Pkg.	EACH
569-2716	μA78C08U1C	8.0	0.5A	3-terminal	1.38
569-2718	μA78C12U1C	12.0	0.5A	3-terminal	1.38
569-2720	μA78C15U1C	15.0	0.5A	3-terminal	1.38
569-2722	μA78C24U1C	24.0	0.5A	3-terminal	1.38

μA78H AND μA78HG 5-AMP HYBRID VOLTAGE REGULATORS

Series μA78H hybrids are 3-terminal regulators with fixed output voltages and 5A output current capability. Type μA78HGKC is an adjustable 4-terminal regulator capable of supplying in excess of 5A over 5.0 to 20V output range (only two external resistors or potentiometer needed to set voltage). Full thermal overload, short circuit and safe area protection. If safe operating area is exceeded, the device simply shuts down, rather than failing or damaging other components. Hermetically sealed TO-3 package. Operating Temperature: 0° to +150°C.

Stock No.	Mfr's Type	Output Volts	Out. Curr.	Max. Input Volts	Power Dissi-pation	EACH
569-2731	μA78H05SC	5.0	5A	25	50W	11.00
569-2732	μA78H12KC	12	5A	25	50W	11.00
569-2733	μA78H15KC	15	5A	25	50W	11.00
569-2734	μA78HGKC	5-20	5A	25	50W	11.00

μA78L 3-TERMINAL POSITIVE VOLTAGE REGULATORS

Constructed using planar epitaxial process, with internal current limiting and thermal shutdown—virtually indestructible. Can deliver up to 100 mA output current (if adequate heat sinking is provided). For wide range of applications, including local or on card regulation for elimination of noise and distribution problems associated with single point regulators. Can be used with power pass elements to make high current regulators. Oper. Temp.: 0° to +150°C. Lead Temp.: 260°C. 10-sec. limit.

Stock No.	Mfr's Type	Output V	Input V	Package	EACH
569-2735	μA78L05AWC	5	30	Molded TO-92	.57
569-2740	μA78L12AWC	12	35	Molded TO-92	.57

μA78G AND μA79G 4-TERMINAL ADJUSTABLE VOLTAGE REGULATORS

Series μA78G (positive) and μA79G (negative) regulators deliver continuous load currents up to 1.0A, with max. input voltage of 40V. Output current capability can be increased through use of external transistors. Constructed using planar epitaxial process. Internal current protection; thermal overload protection; safe area protection. μA78G/79G are excellent for use as dual tracking regulator system with appropriate external circuitry. Lead Temp.: power tab, 230°C, 10-sec. time limit; TO-3, 300°C, 60-sec. limit.

Stock No.	Mfr's Type	Adj. Output Volts	Package	EACH
569-2730	μA78GU1C	+5 to +30	Power tab	2.50
569-2728	μA78GKC	+5 to +30	TO-3	3.25
569-2765	μA79GU1C	-30 to -2.2	Power tab	2.88
569-2764	μA79GKC	-30 to -2.2	TO-3	3.75

μA78MG AND μA79MG 4-TERMINAL ADJUSTABLE VOLTAGE REGULATORS

Series μA78MG (positive) and μA79MG (negative) adjustable regulators can deliver continuous load currents up to 500 mA with maximum input voltage of 40V. Output current capability can be increased to greater than 10A through use of one or more external transistors. Excellent for use as dual tracking regulator, in systems requiring both a positive and negative. Current, thermal overload and safe area protection. Oper. Temp.: 0° to +150°C. Lead Temp.: 230°C, 10-sec. limit.

Stock No.	Mfr's Type	Adj. Output Volts	Package	EACH
569-2745	μA78MGT2C	+5 to +30	Pwr Mini DIP	2.25
569-2747	μA78MGU1C	+5 to +30	Power Tab	2.25
569-2770	μA79MGT2C	-30 to -2.2	Pwr Mini DIP	2.25
569-2772	μA79MGU1C	-30 to -2.2	Power Tab	2.25

SEE PAGE 28 FOR MOUNTING AND INSULATING HARDWARE

See Integrated Circuit Directory for Additional Regulators

CMOS Integrated Circuits



- Low Power—typically 10 nW Per Gate Static
- Wide Operating Power Supply Voltage Range—3 to 15 V Recommended, 18 V Absolute Maximum
- High Noise Immunity
- Buffered Outputs Standardize Output Drive, Reduce Variation of Propagation Delay
- Wide Operating Temperature Range—Commercial −40°C to +85°C, Military −55°C to +125°C
- High DC Fan-Out, Greater Than 50

ISOPLANAR C. The 4000 CMOS logic family uses Isoplanar C for high performance. This technology combines local oxidation isolation techniques with silicon gate technology to achieve an approximate 35% to 100% savings in area, as shown in Figure 1-1a. Operating speeds are increased due to the self-alignment of the silicon gate and reduced sidewall capacitance. Conventional CMOS circuits are fabricated on an n-type substrate as shown in Figure 1-1b. The p-type substrate required for complementary n-channel MOS is obtained by diffusing a lightly doped p-region into the n-type substrate. Conventional CMOS fabrication requires more chip area and has slower circuit speeds than Isoplanar C CMOS. This is a result of the n+ or p+ channel stop which surrounds the p- or n-channels respectively in conventional metal gate CMOS. Silicon gate CMOS (Fig. 1-1c) has a negligible reduction in area, though transient performance is improved.

4000 SERIES CMOS LOGIC

Combines the popular 4000A and 4000B series functions with the advanced Isoplanar C process. The result is a logic family with a superior combination of noise immunity and standardized drive characteristics. Under static conditions, these devices dissipate very low power, typically 10 nW per gate. Low power combined with a wide recommended operating supply voltage (3-15V) greatly minimizes power supply costs. The 4000 family is designed with standardized output drive characteristics which, combined with relative insensitivity to output capacitive loading, simplify system design. Originally designed for aerospace applications, CMOS now finds its way into industrial/medical electronics, automotive applications, computer peripherals—and dominates the electronic watch market.

FULLY BUFFERED OUTPUTS

4000 series CMOS is designed with the system user in mind. Output buffering is used on all devices to achieve higher performance, standardized output drive, highest noise immunity, and decreased AC sensitivity to output loading. CMOS uses small geometry logic transistors (to generate the required function) which drive standard low-impedance output buffers. This technique reduces chip-size, since only two large output transistors are required per output, and rise and fall times are less dependent on input pattern. Buffered outputs also increase system speeds and make propagation delay less sensitive to output capacitance (see Figure 1—comparison of propagation delay vs. load capacitance for conventional and fully buffered NAND gates).

Another advantage of this approach is improved noise immunity. Because of the increased voltage gain in the 4000 series CMOS, nearly ideal transfer characteristics are realized (see Figure 2—typical voltage transfer characteristics for conventional and fully buffered devices). The high gain (greater than 10,000) also provides significant pulse shaping (Figure 3—positive-going input ramps of 0.1 μsec and 1.0 μsec applied to conventional and fully buffered gates).

Figure 1

COMPARISON OF PROPAGATION DELAY VS LOAD CAPACITANCE FOR CONVENTIONAL AND FULLY BUFFERED NAND GATES

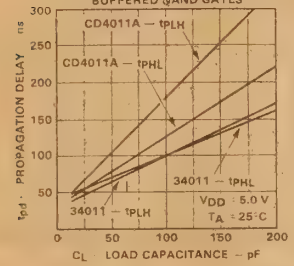


Figure 2

TYPICAL VOLTAGE TRANSFER CHARACTERISTICS FOR CONVENTIONAL AND FULLY BUFFERED DEVICES

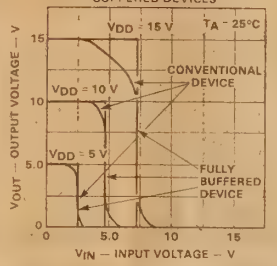
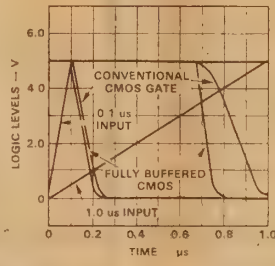


Figure 3

POSITIVE-GOING INPUT RAMPS OF 0.1 μs AND 1.0 μs APPLIED TO CONVENTIONAL AND FULLY BUFFERED GATES



4000 SERIES CMOS SELECTION GUIDE

(Ratings at V_{DD}=10V unless otherwise indicated)

LATCHES/FLIP-FLOPS

Stock No.	Mfr's Type	Function	Data Inputs	Common Clr.	Delay, ns(typ) Enable/Clock-Q	Delay, ns(typ) Data to Q	Power Diss. mW	EACH
569-3427	4027BPC	Dual JK Flip-Flop	J-K	R-S	35	80	0.28	1.35
569-3413	4013BPC	Dual D Flip-Flop	D	R-S	35	45	0.28	1.13
569-4050	40175BPC	Quad D Flip-Flop	D	X	25	30	0.40	1.88
569-4045	40174BPC	Hex D Flip-Flop	D	X	25	30	0.40	1.88
569-3442	4042BPC	4-bit Latch	D	...	55	36	0.28	2.26
569-3443	4043BPC	4-bit Latch	R-S	...	40	40	0.20	2.25
569-3444	4044BPC	4-bit Latch	R-S	...	40	40	0.20	2.25
569-4011	4723BPC	Dual 4-bit Add. Latch	D	X	40	35	0.20	2.75

MULTIPLEXERS Fan-Out=50.

Stock No.	Mfr's Type	Function	Enable Inp.	True Output	Delay, ns(typ) Select	Delay, ns(typ) Enable	Delay, ns(typ) Data	Power Diss. mW	EACH
569-3419	4019BPC	Quad 2-input	..	X	25	..	25	1.2	1.38
569-3980	4539BPC	Dual 4-input	X	X	78	42	61	1.2	2.00
569-4000	4512BPC	Single 8-input	X	3-st.	75	35	65	1.2	1.75

REGISTERS

Stock No.	Mfr's Type	Function	No. of Bits	Serial Ent.	Max. Clock MHz	Clock-Out. Delay, ns	Pwr. Diss. mW	EACH
569-3435	4035BPC	Parallel-in/parallel-out	4	J-K	12	80	1.0	2.63
569-4065	40194BPC	Par.-in/par.-out bidirec.	4	D	14	35	1.0	1.88
569-4070	40195BPC	Parallel-in/parallel-out	4	J-K	14	35	1.0	1.88
569-3415	4015BPC	Serial-in/parallel-out	8	D	14	75	0.2	2.25
569-3414	4014BPC	Parallel-in/serial-out	8	D	14.7	57	1.2	2.25
569-3421	4021BPC	Parallel-in/serial-out	8	D	18.1	64	1.2	2.25
569-3406	4006BPC	Serial-in/serial-out	18	D	12	80	1.0	2.25
569-4013	4713BPC	S3rial-in/serial-out	256	D	4	175	0.5	21.38

DECODERS/DEMULTIPLEXERS Fan-Out=50.

Stock No.	Mfr's Type	Function	Add. Inputs	Act. LOW Enable	Act. LOW Outputs	Out. Config.	Delay, ns Select	Delay, ns Enable	Pwr. Diss. mW	EACH
569-3985	4555BPC	Dual 1-of-4 Decoder	2x2	2	..	H	54	51	0.4	1.25
569-3990	4556BPC	Dual 1-of-4 Decoder	2x2	2	X	L	54	51	0.4	1.25
569-3428	4028BPC	1-of-10 Decoder	4	..	..	H	60	...	1.2	2.00
569-3452	4052BPC	Dual 4-chan. Demult.	2	1	..	H	120	100	0.14	1.66
569-3451	4051BPC	8-channel Demultip.	3	1	..	H	120	100	0.14	1.66

MEMORIES

Stock No.	Mfr's Type	Function	Organization	Address Access	Power Diss.	EACH
569-4012	4725BPC	¾½/BIT RAM	16x4	70 ns	0.3 mW	8.40
569-4009	4710BPC	64-bit RAM; output reg.	16x4	.....	.....	11.05
569-4010	4720BPC	256-bit RAM	256x1	70 ns	0.3 mW	14.38
569-4002	4703BPC	64-bit FIFO	16x4	.....	.....	14.20
569-4007	4706BPC	64-bit LIFO	16x4	.....	.....	16.27

COUNTERS† A asynchronous; S=synchronous

Stock No.	Mfr's Type	Function	Modulo	Parallel Load†	Max. Clock MHz	Clock-Q Out. Delay ns	Pwr. Diss. mW	EACH
569-4025	40160BPC	4-bit Sync. Count Up	Decade	S	12	50	1.4	2.00
569-4030	40161BPC	4-bit Sync. Count Up	Binary	S	12	50	1.4	2.80
569-4035	40162BPC	4-bit Sync. Count Up	Decade	S	12	50	1.4	2.00
569-4040	40163BPC	4-bit Sync. Count Up	Binary	S	12	50	1.4	2.00
569-3755	4510BPC	4-bit Sync. Count Up/Down	Decade	A	12	50	1.4	2.50
569-3760	4516BPC	4-bit Sync. Count Up/Down	Binary	A	12	50	1.4	2.50
569-4055	40192BPC	4-bit Sync. Count Up/Down	Decade	A	8	95	1.4	2.80
569-4060	40193BPC	4-bit Sync. Count Up/Down	Binary	A	8	95	1.4	2.80
569-3429	4029BPC	4-bit Sync. Count Up/Down	D or B	A	12	54	1.4	2.50
569-3765	4518BPC	Dual 4-bit Sync. Count Up	Decade	..	10	85	1.4	2.80
569-3770	4520BPC	Dual 4-bit Sync. Count Up	Binary	..	10	85	1.4	2.80
569-3424	4024BPC	7-bit Ripple Count Up	Binary	..	30	37	1.4	1.46
569-3440	4040BPC	12-bit Ripple Count Up	Binary	..	25	45	1.4	2.00
569-3420	4020BPC	14-bit Ripple Count Up	Binary	..	25	45	1.4	2.80
569-3417	4017BPC	5-bit Johnson Counter	1-of-10	..	13.8	104	1.4	2.25
569-3418	40188PC	5-bit Johnson Counter	Johnson	A	13.8	104	1.4	2.25
569-4005	4702BPC	Bit Rate Generator	14-bit	..	6.5	40	1.2	13.88

DUAL RETRIGGERABLE RESETTABLE MONOSTABLE MULTIVIBRATOR

Stock No.	Mfr's Type	Typical Pulse Width Variation	No. of Inputs +	No. of Inputs −	Min. Output tpw ns	Quiescent Pwr. Diss. mW	EACH
569-3775	4528BPC	±4.2%	1	1	200	0.28	2.08

INTERFACE-LEVEL TRANSLATOR

Stock No.	Mfr's Type	Function	Volts, VDD Out=10/In=5 VOH	Volts, VDD Out=10/In=5 VOL	tpd ns(type) (5V In)	Pwr. Diss. mW	EACH
569-3504	4104BPC	TTL to High Level CMOS	9.95	0.05	75	1.4	4.63

ANALOG DEVICES — CMOS ONLY Signal capability: 0-15V (±7.5).

Stock No.	Mfr's Type	Function	Max. ON Ohms	Max. Off-State Leakage	Pwr. Diss. mW	EACH
569-3416	4016BPC	Quad bilateral switch	840	125 nA	0.03	1.13
569-3466	4066BPC	Quad bilateral switch	520	100 nA	0.03	1.35
569-3452	4052BPC	Dual 4-chan. multip./demultip.	200	100 nA	1.4	1.66
569-3451	4051BPC	8-chan. multiplexer/demultip.	200	100 nA	1.4	1.66

OPERATORS — Adders, ALU's, Comparators, Encoders

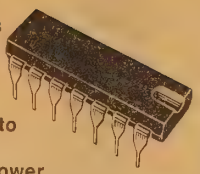
Stock No.	Mfr's Type	Function	No. of Bits	Out. Power Diss. mA	EACH
569-3408	4008BPC	Binary Adder	4	1 4	2.13
569-3995	4582BPC	Carry Lookahead Block	4	0.3	3.28
569-4014	40085BPC	Magnitude Comparator	4	1 4	1.88
569-4003	4704BPC	Data Patch Switch	4	...	13.20
569-4004	4705BPC	Arith. Logic Register Stack	4	..	23.04
569-4008	4707BPC	Data Access Register	4		12.24

See Integrated Circuit Directory for Additional CMOS Integrated Circuits

Low Power Integrated Circuits

74LS SERIES LOW POWER SCHOTTKY

- **Less Supply Current Allows Smaller Power Supplies**
- **Lower Power Consumption**
- **Less Noise Generation**
- **Simple MOS to TTL and CMOS to TTL Interfacing**
- **Enhanced Reliability Due to Lower Dissipation**



The 74LS Schottky family offers many advantages, including: **Lower power consumption,** generating less heat, which simplifies thermal design. Packing density can be increased or cooling requirements reduced, or both.
Reliability is enhanced, since low dissipation causes less chip temperature rise; low junction temp. increases MTBF.
Less noise generation, since improved transistors and lower operating currents lead to much smaller current spikes than standard TTL; fewer or smaller decoupling capacitors needed.
Direct interfacing with other TTL types. Interfaces directly with CMOS operating up to 15V. Simplified MOS to TTL interfacing, since input load current is only 25% of standard TTL load. Most 4000 or 74C CMOS drive one 74LS input load at 5V.
Best TTL to MOS or CMOS driver. With the modest input current of MOS or CMOS as a load, any 74LS output will rise to within 1V of Vcc; can be pulled to 10V with external resistor.
Functions and pinouts are the same as 7400/9300 series.
Circuit Characteristics: Input/output circuits of all 74LS, including SSI, MSI and MACROLOGIC, are almost identical. Though 74LS is part of the TTL family, it does not use the multi-emitter input structure; instead, it has a DTL-type input with Schottky diodes to perform the AND function, increasing input breakdown voltage to 15V. Each input has a Schottky clamping diode which conducts when an input signal goes negative. Effective input capacitance is approximately 3.3 pF. For inputs which serve more than one function, each adds 1.5 pF.

For many years TTL has been the most popular digital IC, offering a good compromise between cost, speed, power consumption and ease of use. Recent improvements in semiconductor processing have made it possible to not only reduce TTL power consumption significantly, but also to improve the speed over that of standard TTL—thus, the 74LS Schottky.

The 74LS Low Power Schottky TTL family combines a current and power reduction by factor 5 (compared to 7400 Series TTL) with antisaturation Schottky diode clamping and advanced processing, using shallower diffusions and higher sheet resistivity to achieve performance better than conventional TTL circuits. With a full complement of popular functions available, the 74LS is destined to become the dominating TTL logic family.

This 74LS series represents more than just a speed-versus-power trade-off. When compared to other TTL technologies, the 74LS dissipates eleven times less power than 9S or 74S, suffering a delay increase of only 1.7 times. By comparison, 9L Low Power non-Schottky also dissipates eleven times less than 74H, but suffers a delay increase of 3.4 times.

The performance of the 74LS series is not just the result of Schottky clamping. 74LS is four times faster than 9L at the same power dissipation, while 74S is only two times faster than 74H at the same power. The new and higher level of efficiency exhibited by the 74LS Low Power Schottky is made possible by advanced processing, which provides better switching transistors without any sacrifice in manufacturability.

COMPARISON OF POPULAR LOGIC FAMILIES

Parameter	Standard TTL	Series 74L	DTL	74LS Low Power Schottky	F4000 CMOS 5V Supply	F4000 CMOS 10V Supply
Propagation Delay	10 ns	33 ns	30 ns	5 ns	40 ns	20 ns
Flip-Flop Toggle Freq.	35 MHz	3 MHz	5 MHz	45 MHz	8 MHz	16 MHz
Quiescent Power	10 mW	1 mW	8.5 mW	2 mW	10 nW	10 nW
Noise Immunity	1 V	1 V	1 V	0.8 V	2 V	4 V
Fan-Out	10	10	8	20	50*	50*

*Or as determined by allowable propagation delay.

74LS SELECTOR GUIDE BY FUNCTION

ARITHMETIC AND MACROLOGIC OPERATORS

Stock No.	Mfr's Type	Function	Description	No. of Bits	tpd ns	Power Diss. mW	EACH
570-9181	74LS181PC	Arithmetic Logic Unit	ALU with external CLA (Carry Lookahead)	4	20	105	5.26

LATCHES/FLIP-FLOPS

Stock No.	Mfr's Type	Function	Data Inputs	Enable/ Clock Inputs (level)	Req'd E/C Pulse Width ns	E/C to Q Delay ns (typ)	Power Diss. mW (typ)	EACH
570-9279	74LS279PC	4-bit R-S Latch	4x(RS)	....	..	..	19	1.05
570-9196	74LS196PC	4-bit D Latch	4xD	1(L)	20	28	60	2.25
570-9197	74LS197PC	4-bit D Latch	4xD	1(L)	20	28	60	2.25
570-9175	74LS175PC	4-bit D Flip-Flop	4xD	1(↑)	20	21	55	1.87
570-9298	74LS298PC	4-bit D Flip-Flop	4x2	1(L)	20	20	65	2.18
570-9174	74LS174PC	6-bit D Flip-Flop	6	1(↑)	20	21	80	1.87
570-9259	74LS259PC	8-bit Add. Latch	1xD	1(L)†	11	18	70	5.38
570-9170	74LS170PC	4x4 Register File	4xD	2	25	..	125	4.88
570-9670	74LS670PC	4x4 Register File (3-state)	4xD	2	25	..	150	5.63

†add. 3 bits.

ASYNCHRONOUS AND SYNCHRONOUS REGISTERS

Stock No.	Mfr's Type	Function	No. of Bits	Serial Entry	Par. Entry Bits	Clock to Out. Delay ns (typ)	Power Diss. mW (typ)	EACH
570-9095	74LS95PC	Parallel-in/parallel-out Shift Right	4	D	4S	20	65	1.87
570-9195	74LS195PC	Parallel-in/parallel-out Shift Right	4	J,K	4S	17	70	1.87
570-9295	74LS295PC	Parallel-in/parallel-out Shift Right	4	D	4S	40	75	2.63
570-9194	74LS194PC	Parallel-in/parallel-out Bidirectional	4	DR,DL	4S	16	75	1.87
570-9174	74LS174PC	Parallel-in/parallel-out	6	.....	6S	21	65	1.87
570-9175	74LS175PC	Parallel-in/parallel-out	4	.....	4S	21	45	1.87
570-9298	74LS298PC	Parallel-in/parallel-out	4	.....	2D†	21	65	2.18
570-9170	74LS170PC	Multiport Register	16	.....	4A	25	125	4.88
570-9670	74LS670PC	Multiport Register	16	.....	4A	30	150	5.63

†MUX.

ASYNCHRONOUS AND SYNCHRONOUS COUNTERS

*Presettable.

Stock No.	Mfr's Type	Function	Modulo	Parallel Load	Clock Transition	Max. Clock Rate MHz	Clock to Q Out. Delay ns	Power Diss. mW (typ)	EACH
570-9090	74LS90PC	Asynch.	2x5	..	↓	50	33	45	1.40
570-9092	74LS92PC	Asynch.	2x6	..	↓	50	33	45	1.68
570-9093	74LS93PC	Asynch.	2x8	..	↓	50	46	45	1.68
570-9196	74LS196PC	Asynch.	2x5	A	↓	60	48	60	2.25
570-9197	74LS197PC	Asynch.	2x8	A	↓	70	60	60	2.25
570-9160	74LS160PC	Synchronous	10*	S	↓	45	15	95	2.18
570-9161	74LS161PC	Synchronous	16*	S	↓	45	15	95	2.18
570-9162	74LS162PC	Synchronous	10*	S	↓	45	15	95	2.18
570-9163	74LS163PC	Synchronous	16*	S	↓	45	15	95	2.18
570-9192	74LS192PC	Up/Down	10	A	↓	40	30	85	2.39
570-9193	74LS193PC	Up/Down	16	A	↓	40	30	85	2.39
570-9190	74LS190PC	Up/Down	10	A	↓	40	20	90	3.12
570-9191	74LS191PC	Up/Down	16	A	↓	40	20	90	3.12

DECODERS/DEMULTIPLEXERS

Unit Load (UL) = 40 μA high/1.6 mA low. Fan-out = 5.

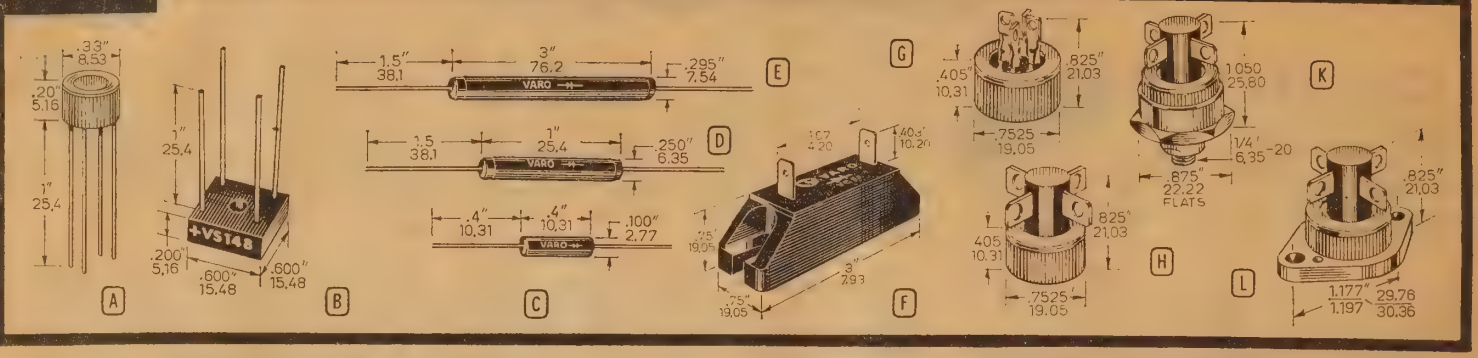
Stock No.	Mfr's Type	Function	Address Inputs	Active LOW		Delay ns (typ)		Power Diss. mW (typ)	EACH
				Enable	Outputs	Address	Enable		
570-9139	74LS139PC	Dual 1-of-4	2 +2	1 +1	4 +4	22	19	34	1.87
570-9155	74LS155PC	Dual 1-of-4	2	2 +2	4 +4	18	15	30	2.25
570-9156	74LS156PC	Dual 1-of-4	2	2 +2	4 +4	33	26	31	2.25
570-9259	74LS259PC	1-of-8	3	1	8	30	19	60	5.38
570-9042	74LS42PC	1-of-8	3	1	8	17	17	35	1.56
570-9138	74LS138PC	1-of-8	3	3	8	22	21	34	1.87
570-9042	74LS42PC	1-of-10	4(BCD)	...	10	17	...	35	1.56

MULTIPLEXERS

Unit Load (UL)-40 μA high/1.6 mA low. Fan-out=5. *Clocked (edge-trigger).

Stock No.	Mfr's Type	Function	Enable Inputs	Output		Delay ns (type)			Power Diss. mW (typ)	EACH
				True	Complement	Select	Enable	Data		
570-9157	74LS157PC	Quad 2-input	1	X		18	14	9	49	1.75
570-9158	74LS158PC	Quad 2-input	1		X	16	12	7	24	1.90
570-9257	74LS257PC	Quad 2-input	1	3-st.		14	16	12	50	1.91
570-9258	74LS258PC	Quad 2-input	1		3-st.	12	16	10	35	2.02
570-9298	74LS298PC	Quad 2-input	*	Latch		..	20	..	65	2.18
570-9153	74LS153PC	Dual 4-input	2	X		18	16	10	31	2.00
570-9253	74LS253PC	Dual 4-input	2	3-st.		18	16	10	43	1.87
570-9151	74LS151PC	8-input	1	X	X	28	25	18	30	1.66
570-9251	74LS251PC	8-input	1	3-st.	3-st.	29	21	18	33	1.91

Rectifiers



EPOXY BRIDGE RECTIFIERS

Minimum size, low-cost epoxy bridge rectifiers for general purpose, low current applications such as power tools, permanent magnet motors, DC supplies and battery chargers. Available in controlled avalanche, non-controlled avalanche. Reverse Current: 5 μA at Tc=40°C. Operating/Storage Temperature: —50° to +150°C.

Ⓐ 1 AMP EPOXY BRIDGE RECTIFIERS

W110, VE08, VE18, VE28, VE48 and VE68 are non-controlled avalanche types. VE27, VE47, and VE67 are controlled avalanche with 200 W max. power dissip. In V_{BR} region for 100 μsec, 1 W continuous. Peak Surge Current: 4 A max., 1 sec at 60 Hz; 25 A max., 1 cycle (non-rep.).

Stock No.	Type No.	Avalanche Volts Min.	Avalanche Volts Max.	Max. Vr (RMS)	Vrm (wkg)	Max. Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-3200	W110	...	...	17	25	1.2	2.13	1.10	.85
976-3201	VE08/WILL	...	...	35	50	1.2	1.43	1.14	.89
976-2010	VE18	...	...	70	100	1.2	1.50	1.21	.94
976-2020	VE28	...	...	140	200	1.2	1.60	1.33	1.05
976-2050	VE48	...	...	280	400	1.2	1.68	1.45	1.15
976-2090	VE68	...	...	420	600	1.2	2.06	1.80	1.42
976-2019	VE27	250	700	140	200	1.2	1.90	1.61	1.27
976-2042	VE47	450	900	280	400	1.2	3.48	1.74	1.39
976-2074	VE67	650	1100	420	600	1.2	2.53	2.12	1.68

6 AMP EPOXY BRIDGE RECTIFIER

VH048, VH148, VH248, VH448, VH648 are non-controlled avalanche types. VH247, VH447, VH647 are controlled avalanche types with 400 watts max. power dissip. In the V_{BR} region for 100μsec, 2 watts cont. Peak Surge Current: 25 A max., 1 sec at 60 Hz; 100 A amps max., 1 cycle at 60 Hz (non-rep.).

Stock No.	Type No.	Fig.	Avalanche Volts Min.	Avalanche Volts Max.	Max. Vr (RMS)	Vrm (wkg)	Max. Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-3700	VH048	B	...	...	35	50	1.2	3.58	1.73	1.43
976R2850	VH148	B	...	...	70	100	1.2	2.68	1.93	1.58
976-2853	VH248	B	...	...	140	200	1.2	2.90	2.15	1.75
976-2856	VH448	B	...	...	280	400	1.2	3.30	2.49	2.03
976-2860	VH648	B	...	...	420	600	1.2	5.88	2.88	2.35
976R2852	VH247	B	250	700	140	200	1.2	3.20	2.48	2.04
976-2854	VH447	B	450	900	280	400	1.2	3.68	2.85	2.34
976-2858	VH647	B	650	1100	420	600	1.2	4.23	3.29	2.70

2 AMP EPOXY BRIDGE RECTIFIERS

VS048, VS148, VS248, VS448, VS648 are non-controlled avalanche types. VS247, VS447, VS647 are controlled avalanche types with 300 W max. power dissip. In VBR region for 100 μsec, 1 W cont. trr Peak Surge: 8 A max., 1 sec at 60Hz; 50 A max., 1 cycle (non-rep.).

Stock No.	Type No.	Fig.	Avalanche Volts Min.	Avalanche Volts Max.	Max. Vr (RMS)	Vrm (wkg)	Max. Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-3835	VS048	B	...	...	35	50	1.2	2.33	1.20	.93
976R0310	VS148	B	...	...	70	100	1.2	1.75	1.28	.99
976R3131	VS248	B	...	...	140	200	1.2	1.88	1.40	1.10
976-3141	VS448	B	...	...	280	400	1.2	2.20	1.53	1.21
976-3152	VS648	B	...	...	420	600	1.2	3.85	1.90	1.54
976R3130	VS247	B	250	700	140	200	1.2	2.13	1.67	1.33
976-3140	VS447	B	450	900	280	400	1.2	2.45	1.81	1.50
976-3148	VS647	B	650	1100	420	600	1.2	2.83	2.23	1.82

Ⓑ 10-AMP EPOXY BRIDGE RECTIFIERS

VJ448, non-controlled avalanche type. 27 A max., 1 sec. at 60 Hz; 75 A max., 1½ cycle at 60 Hz (non-rep.).

Stock No.	Type No.	Max. Vr (RMS)	Vrm (wkg)	Max. Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-2905	VJ448	280	400	1.2	5.58	2.74	2.23

HIGH VOLTAGE RECTIFIERS

All ratings are obtained without the use of heat sinks or special mounting techniques. Will withstand 500G shock, 100 Hz vibration with peak acceleration of 10G.

Ⓒ VB SERIES

DC Reverse Current: .05 μA at PRV at 25°C, 5.0 μA at PRV at 100°C; Peak Surge Current: 3 amps maximum, 1 cycle at 60 Hz (non-rep.). Ambient Operating Temperature Range: —55°C to +150°C.

Stock No.	Type No.	PRV (V)	Io (mA)	Vf (V)	EACH 1-24	EACH 25-99	EACH 100-Up
976-1412	VB50	5000	50	10	4.55	2.40	1.82

Ⓓ VG SERIES

DC Reverse Current: 1μA at PRV at 25°C, 40 μA at PRV at 100°C. Peak Surge Current: 3 amps maximum, 1 cycle at 60 Hz (non-rep.). Ambient Operating Temperature: —55°C to +150°C.

Stock No.	Type No.	PRV (V)	Io (mA)	Vf (V)	EACH 1-24	EACH 25-99	EACH 100-Up
976-3310	VG10	10,000	25	20	2.95	1.49	1.18

Ⓔ VF SERIES

Stock No.	Type No.	PRV (V)	Io (mA)	Vf (V)	EACH 1-24	EACH 25-99	EACH 100-Up
976-2720	VF25-40	40,000	25	50	10.19	7.20	6.10

Ⓕ VC SERIES

High voltage with low leakage current offered in epoxy encapsulated packages. Units have ¼" tin plated brass terminals. DC Reverse Current: 1 μA at PRV at 25°C, 1 mA at PRV at 125°C. Peak Surge Current: 50 amps maximum, 1 cycle at 60 Hz (non-rep.). Ambient Operating Temperature: —50°C to +125°C. Insulation Strength: terminal to heat sink, 10,000 volts minimum.

Stock No.	Type No.	PRV (V)	Io (A)	Vf (V)	EACH 1-24	EACH 25-99	EACH 100-Up
976-1540	VC60	6000	1.5	12	12.50	6.50	5.00
976-1560	VC80	8000	1	14	13.75	7.15	5.50

10 AND 25 AMP INTEGRATED BRIDGE RECTIFIERS

Single phase 10 amp and 25 amp integrated bridge rectifiers feature silicon controlled avalanche characteristics. Controlled avalanche characteristics eliminate the need to buy more expensive, overrated devices to provide adequate protection against voltage transients. Electrically isolated welded case offers minimum size and maximum mounting ease.

10 AMP CONTROLLED AVALANCHE INTEGRATED BRIDGE RECTIFIERS

600 watts max. power dissipation in the V_{BR} region for 100 μsec. 4 watt/leg continuous Average DC Forward Current: 10 A at 100°C case temperature. Peak Surge Current: 100 A, 1 cycle at 60 Hz (non-rep.). Max. Reverse Current: 0.2 mA at Tc=160°C. Insulation Strength: 2000 VDC minimum, case-to-circuit. Operating/Storage Temperature: —65° to + 160°C.

Stock No.	Type No.	Fig.	Avalanche Volts Min.	Avalanche Volts Max.	Max. Vr (RMS)	Vrm (wkg)	Max. Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-0200	1N4436	G	250	500	140	200	1.2	6.93	4.79	3.51
976-0220	1N4436/F/T	H	250	500	140	200	1.2	7.43	5.19	3.81
976-0210	1N4436/F/S	K	250	500	140	200	1.2	7.68	5.29	3.91
976-0230	1N4437	G	450	700	280	400	1.2	10.50	5.72	4.20
976-0250	1N4437/F/T	H	450	700	280	400	1.2	11.25	6.12	4.50
976-0240	1N4437/F/S	K	450	700	280	400	1.2	9.45	6.22	4.60
976-0280	1N4438/F/T	H	650	900	400	600	1.2	10.33	8.25	6.02
976-0270	1N4438/F/S	K	650	900	400	600	1.2	10.43	8.35	6.12

25 AMP CONTROLLED AVALANCHE

Provides 1500 watts maximum power dissipation in the V_{BR} region for 100 μsec, 4 watts/leg continuous. Average DC Forward Current: 25 amps at 100°C case temperature. Peak Surge Current: 250 amps, 1 cycle at 60 Hz (non-rep.). Maximum Reverse Current: 5 mA at Tc= 180°C. Insulation Strength: case-to-circuit, 2000 VDC minimum. Operating/Storage Temperature: —65°C to +180°C.

Stock No.	Type No.	Fig.	Avalanche Volts Min.	Avalanche Volts Max.	Max. Vr (RMS)	Vrm (wkg)	Vfm V/leg	EACH 1-24	EACH 25-99	EACH 100-Up
976-3160	VT200	H	250	700	140	200	1.5	10.90	5.89	4.36
976-3162	VT200/T	L	250	700	140	200	1.5	11.65	6.29	4.66
976-3161	VT200/S	K	250	700	140	200	1.5	11.90	6.39	4.76
976-3170	VT400	H	450	900	280	400	1.5	10.75	7.35	5.57
976-3172	VT400/T	L	450	900	280	400	1.5	14.68	7.75	5.87
976-3171	VT400/S	K	450	900	280	400	1.5	11.50	7.85	5.97
976-3180	VT600	H	650	1100	400	600	1.5	13.00	10.34	7.46
976-3182	VT600/T	L	650	1100	400	600	1.5	13.50	10.74	7.76
976-3181	VT600/S	K	650	1100	400	600	1.5	13.60	10.84	7.86

Barrier and Bridge Rectifiers

1 AMP FAST RECOVERY TIME RECTIFIERS



LTR	In.	(mm)
A	.030-.034 Dia.	.76-.86 Dia.
B	.10-.107 Dia.	2.54-2.72 Dia.
C	.185-.205	4.70-5.21
D	2.40	60.96

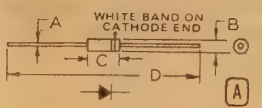
100 nanosecond reverse recovery time. 50V, 100V, 200V, 400V, and 600V Vrrm ratings.

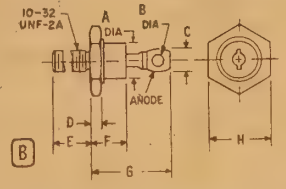
Stock No.	Mfr's Type	Vrrm	Vr(rms)	EACH 1-24	25-99	100-Up
976-0105	V105X	50V	35V	.56	.51	.37
976-0110	V110X	100V	70V	.58	.53	.39
976-0120	V120X	200V	140V	.61	.55	.41
976-0140	V140X	400V	280V	.65	.59	.44
976-0160	V160X	600V	420V	.70	.62	.48

Stock No.	976-0105	976-0110	976-0120	976-0140	976-0160
Mfr's Type	V105X	V110X	V120X	V140X	V160X
Vrrm	50V	100V	200V	400V	600V
Vr(rms)	35V	70V	140V	280V	420V
Io	1A	1A	1A	1A	1A
Vfm		1.1V @ 1A			
Irm		2 ma @ TA = 125°C			
Trr		100 nsec			
Tj, Tstg		−50 to +150°C			

SCHOTTKY BARRIER RECTIFIERS

These tough, precision-made barrier rectifiers have very low V_f and very fast switching speed. They are used mainly in low voltage power supplies for computers. Other uses include free wheeling diodes, flyback diodes and polarity protection in high speed switching circuits. Available in 1 amp, 3 amp and 5 amp sizes in plastic axial lead packages and 15 amp size in a DO-4 stud package and 30 amp size in a DO-5 package.





LTR	Fig. 1-A In.	Fig. 1-A (mm)	Fig. 2-A In.	Fig. 2-A (mm)	Fig. B In.	Fig. B (mm)
A	.030-.034 Dia.	.76-.86 Dia.	.048-.052 Dia.	1.22-1.32 Dia.	.250 max.	6.35 max
B	.10-.107 Dia.	2.54-2.72 Dia.	.20 Dia.	5.08 Dia.	.075-.175	1.91-4.45
C	.185-.205	4.70-5.21	.38	9.65	.422-.453	10.71-11.51
D	2.40	60.96	2.75	69.85	.800 max.	20.32 max.
E					.424-.437	10.77-11.10

Stock No.	Mfr's Type	Volts	Amps	EACH 1-24	25-99	100-Up
976-0406	VSK 140	40	1	2.28	2.20	1.48
976-0416	VSK 340	40	3	4.15	3.93	2.62
976-0426	VSK 540	40	5	5.87	5.34	3.56
976-0436	VSK 1540	40	15	7.30	6.90	4.60
976-0446	VSK 3040S	40	30	7.83	7.42	4.95

Stock No.	976-0406	976-0416	976-0426	976-0436	976-0446
Mfr's Type	VSK 140	VSK 340	VSK 540	VSK 1540	VSK 3040S
Fig.	1-A	2-A	2-A	2-A	B
Vrm, Vrwm, Vrrm	40V	40V	40V	40V	40V
Io	1.0A	3.0A	5.0A	15.0A	30A
Ta	80°C	75°C	60°C	85°C	85°C
Ifsm	40	150A	250A	300A	500
Tj	−65 to +150°C	−65 to +150°C	−65 to +150°C	−65 to +150°C	150°C
Vf	iF = 1.0A .550V	iF = 3.0A .475	iF = 5.0A .450	iF = 15.0A .600	iF = 30A .64V
Ir @ TL	25°C 1.0mA	3.0mA	10mA	10mA	25°C 20mA



1-AMP DUAL IN-LINE BRIDGE RECTIFIERS

50V, 100V, 200V, 400V, 600V, and 1000V V_{RRM} ratings. 25 amps peak one half cycle surge current. Standard .10"-2.54mm DIP lead spacing. Two DIB's will fit into standard 14 pin DIP socket. Moisture resistant epoxy case.

MAXIMUM RATINGS

Stock No.	976-0450	976-0455	976-0460	976-0465	976-0470	976-0480
Mfr's Type	VM08	VM18	VM28	VM48	VM68	VM108
VRM VRWM VRRM	50V	100V	200V	400V	600V	1000V
VR(RMS)	35V	70V	140V	280V	420V	700V
IFSM				25A		
IFRM				11A		
IO				1A		
TJ,TSTG				−50 to +150°C		

Stock No.	Mfr's Type	VRWM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0450	VM08	50V	35V	.97	.80	.50
976-0455	VM18	100V	70V	1.01	.85	.55
976-0460	VM28	200V	140V	1.10	.91	.58

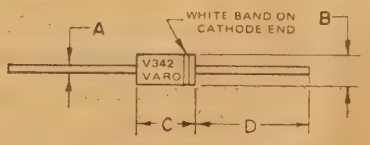
Stock No.	Mfr's Type	VRWM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0465	VM48	400V	280V	1.18	.98	.61
976-0470	VM68	600V	420V	1.28	1.07	.67
976-0480	VM108	1000V	700V	1.85	1.54	1.00



3 AMP DIFFUSED SILICON EPOXY RECTIFIERS WITH 200 AMP PEAK SURGE RATING

50V, 100V, 200V, 400V, 600V, 800V, and 1000V VRRM ratings. Minimum size, low cost epoxy encapsulation.

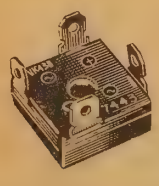
Stock No.	Mfr's Type	Vrrm	Vr(rms)	Ifsm	Io	Tj, Tstg	Vfm	Irm
976-0500	V350	50	35	200A	3A	−50 to +150°C	1.1V	0.1 ma at Tj=150°C
976-0505	V351	100	70					
976-0510	V352	200	140					
976-0515	V354	400	280					
976-0520	V356	600	420					
976-0525	V358	800	560					
976-0530	V3510	1000	700					



LTR	INCHES	LTR	INCHES
A	.048-.052 Dia.	D	1.137-1.237
B	.20		
C	.38		

Stock No.	Mfr's Type	VRRM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0500	V350	50V	35V	.73	.53	.38
976-0505	V351	100V	70V	.75	.54	.40
976-0510	V352	200V	140V	.78	.56	.41

Stock No.	Mfr's Type	VRRM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0515	V354	400V	280V	.80	.59	.42
976-0520	V356	600V	420V	.88	.63	.44
976-0525	V358	800V	560V	1.00	.69	.51
976-0530	V3510	1000V	700V	1.15	.89	.64



30-AMP EPOXY BRIDGE RECTIFIERS

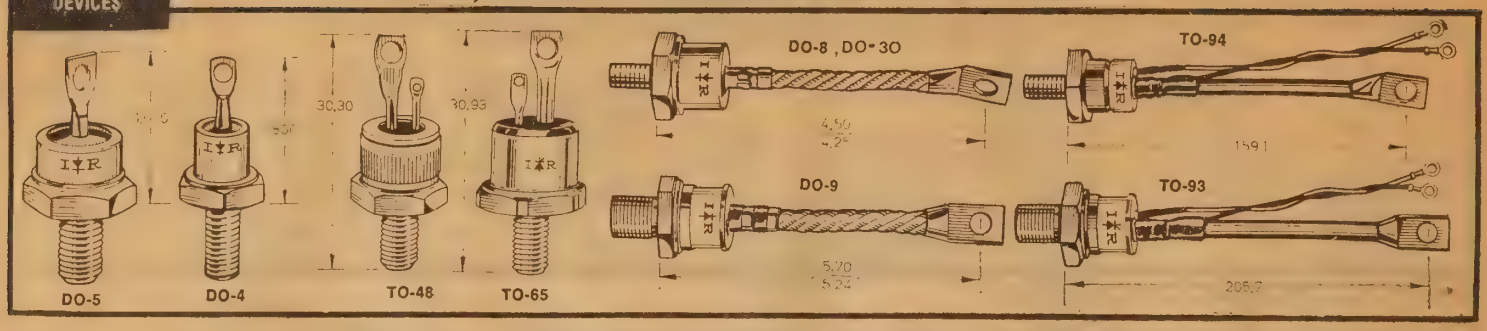
Externally exposed copper mounting pad for low thermal resistance. 2200 volts minimum circuit-to-case insulation. 30 amps DC forward current at $T_C = 80°C$. 300 amps peak one half cycle surge current.

Stock No.	976-0550	976-0555	976-0560	976-0565	976-0570	976-0575	976-0580
Mfr's Type	VK048	VK148	VK248	VK448	VK648	VK848	VK1048
VR VRWM VRRM	50V	100	200	400	600	800	1000
VR(RMS)	35V	70	140	280	420	560	700
IFMS				300A			
IFRM				75A			
IO				30A			
TJ, TSTG				−50 to +175°C			

Stock No.	Mfr's Type	VRWM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0550	VK048	50V	35V	6.55	3.27	2.62
976-0555	VK148	100V	70V	6.70	3.35	2.68
976-0560	VK248	200V	140V	4.28	3.45	2.76

Stock No.	Mfr's Type	VRWM	VR (RMS)	EACH 1-24	25-99	100-Up
976-0565	VK448	400V	280V	4.45	3.59	2.88
976-0570	VK648	600V	420V	7.63	3.83	3.05
976-0575	VK848	800V	560V	8.70	4.39	3.48
976-0580	VK1048	1000V	700V	9.20	4.64	3.68

SCR's, Silicon Rectifiers and Transistors



SILICON CONTROLLED RECTIFIERS AND SILICON RECTIFIERS

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SILICON CONTROLLED RECTIFIERS

IT (RMS) A	Volts	IT(AV) Amps @ Max. TC(°C)	Max. IGT mA @ 25°C	Typ. dv/dt V/us	ITSM A	Case Style	Series
16	25-500	10@35°	90	20	125	TO-48	2N1842-2N1850
16	25-500	10@80°	75	20	125	TO-48	2N1842A-2N1850A
25	100-1200	16@45°	90	10†	200	TO-48	10RC10A-10RC120A
25	25-800	16@65°	40	20	150	TO-48	2N681-2N692
35	50-1200	22@35°	40	10	300	TO-48	16RC5A-16RC120A
63	50-1200	40@87°	110	20	1000	TO-65	40RCS5-40RCS120
80	100-800	50@75°	70	20	1000	TO-94	36RC10A-36RC80A
80	50-1200	50@87°	110	25	1200	TO-65	50RCS5-50RCS120
110	100-800	70@62°	70	20	1200	TO-94	71RC10A-71RC80A
110	25-400	70@62°	70	20*	1000	TO-94	2N1909-2N1916
110	500-700	70@62°	70	20*	1000	TO-94	2N1805-2N1807
110	600-1200	70@62°	110	20	1000	TO-94	2N3091-2N3097
110	500-1200	70@80°	150	200	1600	TO-94	71RA50-71RA120
160	500-1200	100@80°	250	200	2500	TO-93	101RA50-101RA120
160	100-800	100@80°	150	20	2000	TO-93	101RC10-101RC80
235	100-800	150@70°	150	20	3000	TO-93	151RC10-151RC80
235	100-800	150@80°	150	20	3500	TO-93	151RC10A-151RC80A
235	500-1200	150@85°	150	200	4250	TO-93	151RA50-151RA120

†Minimum, *typical.

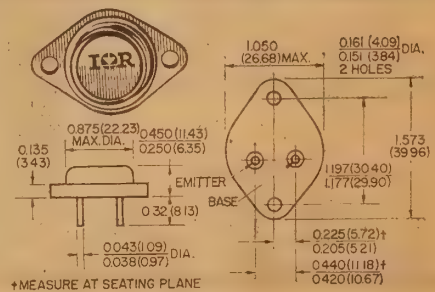
SILICON RECTIFIERS

IF(AV) A@ Max. TC(°C)	PRV	IFSM Amps	Case Style	Series
3@50°	200-600	25	DO-4	1N1124-1N1128
3.3@50°	200-600	25	DO-4	1N1124A-1N1128A
3.3@50°	700-800	25	DO-4	1N3649-1N3650
3.3@85°	100-600	35	DO-4	1N3569-1N3574
12@150°	50-600	200	DO-4	1N1199-1N1206
12@150°	700-1000	200	DO-4	1N3670-1N3673
12@150°	50-600	240	DO-4	1N1199A-1N1206A
12@150°	700-1000	240	DO-4	1N3670A-1N3673A
12@150°	50-600	250	DO-4	1N1199B-1N1206B
12@150°	50-1000	250	DO-4	12F5B-12F100B
15@150°	200-600	250	DO-5	1N3210-1N3214
16@150°	600-1000	300	DO-4	16F60-16F100
16@150°	50-1000	300	DO-4	1N3615-1N3624
35@140°	50-600	500	DO-5	1N1183-1N1190
35@140°	700-1000	500	DO-5	1N3765-1N3768
40@140°	50-1000	500	DO-5	40HF5-40HF100
40@150°	50-600	800	DO-5	1N1183A-1N1190A
60@115°	50-600	700	DO-5	1N2128-1N2138
70@125°	100-1000	1200	DO-5	70H10A-70H100A
100@140°	100-1200	2300	DO-8	1N3288A-1N3296A
150@150°	50	3000	DO-30	1N3111
150@150°	100-1000	3000	DO-30	1N3085-1N3092
150@150°	100-1000	3000	DO-8	150K10A-150K100A
150@150°	100-1000	3000	DO-30	150L10A-150L100A
250@130°	100-1400	4500	DO-9	1N3735-1N3744
250@135°	50-1000	4500	DO-9	1N2054-1N2068
275@120°	50-1000	5000	DO-9	1N4044-1N4056
300@120°	100-1200	5000	DO-9	300U10A-300U120A

HIGH ENERGY EPI BASE POWER TRANSISTORS

Transistors have reduced temperature leakage current and exceptional stability. Also have higher switching speeds, lower V_{CE} saturation levels, and high gain at 150°C junction temperature. *Indicates Darlington types.

Stock No.	Mfr's Type	Polarity	V_{CEO} (sus) Min. V	h_{FE} Min.	@ I_C A	V_{CE} V	Price Each
579-3713	2N3713	NPN	60	15	3	4	1.83
579-3789	2N3789	PNP	60	15	3	4	3.63
579-3791	2N3791	PNP	60	30	3	4	4.00
579-5301	2N5301	NPN	40	5	30	3	4.25
579-5302	2N5302	NPN	60	5	30	3	4.75
579-5632	2N5632	NPN	100	5	10	1.0	4.75
579-5758	2N5758	NPN	100	25	3	1.0	5.10
579-6029	2N6029	PNP	100	4	16	2	7.40
579-6031	2N6031	PNP	140	4	16	2	10.10
579-6050	2N6050*	PNP	60	750	6	3	5.90
579-6053	2N6053*	PNP	60	750	4	3	3.00
579-6055	2N6055*	NPN	60	750	4	3	1.88
579-6057	2N6057*	NPN	60	750	6	3	4.60
579-6226	2N6226	PNP	100	25	3	1.0	5.80
579-6246	2N6246	PNP	60	5	15	1.3	2.53
579-6247	2N6247	PNP	80	5	15	1.3	2.95
579-6282	2N6282*	NPN	60	750	10	3	7.80
579-6383	2N6383*	NPN	40	1000	5	3	2.03
579-6385	2N6385*	NPN	80	1000	5	3	2.50
817-1000	IR1000*	NPN	80	1000	3	3	3.10
817-1020	IR1020*	NPN	80	500	10	5	7.03



TRIPLE DIFFUSED HIGH VOLTAGE POWER TRANSISTORS

Transistors with hard-glass passivation for long life and excellent performance. High temperature stability; low current leakage for cool running. Interchangeable with many power transistor types. Power ratings from 50-175 watts.

NPN FAST SWITCHING POWER TRANSISTORS

Stock No.	Mfr's Type	I_C Peak A	V_{CEO} (sus) Min. V	h_{FE} Min./ Max.	@ I_C A	V_{CE} V	@ I_C A	Pd W	Price Each
579-6306	2N6306	16	250	4. . .	8.0	5.0	8.0	125	5.13
579-6307	2N6307	16	300	4/	8.0	5.0	8.0	125	5.75
579-6251	2N6251	30	350	6-50	10	1.5	10	175	12.38
579-6547	2N6547	30	400	6/30	10	5.0	15	175	10.60

NPN FAST-SWITCHING DARLINGTONS

817-6251	IR6251	15	350	100/. .	5.0	2.0	10	100	9.88
817-6253	IR6253	15	450	100/. .	5.0	2.0	10	100	14.78

NPN HIGH GAIN POWER TRANSISTORS

Stock No.	Mfr's Type	I_C Peak A	V_{CEO} (sus) Min. V	h_{FE} Min./ Max.	@ I_C A	V_{CE} V	@ I_C A	Pd W	Pr. Ea.
579-3902	2N3902	10	325	30/90	1.0	0.8	1.0	100	7.30
579-5157	2N5157	10	400	30/90	1.0	0.8	1.0	100	11.10
579-5804	2N5804	15	225	10/100	5.0	2.0	5.0	110	6.05
817-0410	IR410	10	200	20/100	1.0	0.8	1.0	100	3.38
817-0411	IR411	10	300	30/90	1.0	0.8	1.0	100	3.80
817-0431	IR431	10	325	15/35	2.5	0.7	2.5	125	5.28
817-0423	IR423	10	325	30/90	1.0	0.8	1.0	125	4.80

NEW!

50 AMP NPN POWER TRANSISTORS

Glass passivated double diffused devices for exceptional stability. Low saturation voltage. **Temp. Range:** 65 - -200 C. **Power dissipation** @25 C: 250 watts. **Base Current** (continuous): 20A. **Collector Current** (peak): 100A.

Stock No.	Mfr's Type	V_{CBO}	V_{CEO}	V_{EBO}	Price Each
579-6274	2N6274	120	100	6	11.69
579-6275	2N6275	140	120	6	14.20
579-6276	2N6276	160	140	6	18.62
579-6277	2N6277	180	150	6	23.05

See Page 2 for the Allied Electronics Facility Nearest You

Replacement Semiconductors

DISCRETE DEVICES

ECG SILICON PLASTIC POWER SEMICONDUCTORS





Plastic power semiconductors are finding their way into electronic equipment. The large variety of styles, shapes, sizes and electrical characteristics employed often pose a problem in finding a suitable replacement. However, these carefully selected semiconductors can provide replacement coverage in the majority of cases. Therefore, when replacing the original device with an ECG unit it will be necessary to compare the lead or terminal arrangement of the original with the ECG replacement. If needed, bend the leads to the proper basing arrangement and insulate. For socketed devices, cut the leads on the replacement to proper length. Check the outline dimensions of the replacement if mounting space is a problem. Replacement in untuned stages can usually be made with minimum effort. Tuned amplifiers, oscillators, etc., a check of the stage alignment may be in order after high-power audio stages should always be accompanied by a check on the transistor bias to prevent excessive dissipation or distortion. Power devices require the use of an insulating washer. See below, left, for the Master Replacement Guide.







ECG SEMICONDUCTORS MASTER REPLACEMENT GUIDE

More than 137,000 types listed in this comprehensive guide which provides replacement considerations, specifications, basing and outline drawings of the ECG products as well as a replacement directory which cross references JEDEC types and manufacturer's part numbers to the ECG types which replace them.

935-0001. Type ECG 212H.....2.95

TRANSISTORS

Stock No.	Mfr's Type	Description and Application	Volts BV CBO	Typ. Curr. Gain h_{FE}	EACH
935-0715	ECG102	PNP-Ge, AF Driver, Pre-Amp, Power Output	30	90@1KHz	1.98
935-0720	ECG102A	PNP-Ge, AF Driver, Pre-Amp, Power Output	32	120	2.10
935-0730	ECG103A	NPN-Ge, AF Driver, Pre-Amp, Power Output	32	105	2.48
935-0735	ECG104	PNP-Ge, AF Power Output	50	90	2.00
935-0755	ECG107	NPN-Si, UHF/VHF Amp, Osc, Mix, IF Amp.	35	20 min.	1.65
935-0760	ECG108	NPN-Si, RF/IF Video Amp, Osc, Mix, VHF/UHF	35	20 min.	2.05
935-0820	ECG121	PNP-Ge, AF Power Output, Stereo Hi-Fi	65	80	4.05
935-0835	ECG123	NPN-Si, AF Pre-Amp, Driver, Video Amp, Sync Sep	30	180	1.33
935-0840	ECG123A	NPN-Si, AF/RF Amp	55	200	1.78
935-0845	ECG124	NPN-Si, HV Audio Power Output Line—Operated TV, Phono, Stereo	300	140	2.88
935-0855	ECG126	PNP-Ge, RF/IF Amp, Osc, Mix, VHF Radio	25	60	2.38
935-0865	ECG128	NPN-Si, AF Pre-Amp, Driver, Output, Video Amp	100	90	2.38
935-0870	ECG129	PNP-Si, AF Pre-Amp, Driver, Output, Video Amp	100	90	2.50
935-0875	ECG130	NPN-Si, AF Power Amp	80	40	4.75
935-0885	ECG131	PNP-Ge, AF Power Output Auto	32	110	3.88
935-0995	ECG152	NPN-Si, AF Power Output	60	60	3.00
935-1000	ECG153	PNP-Si, AF Power Output	60	60	3.38
935-1005	ECG154	NPN-Si, TV Video Output Amp	300	100	4.33
935-1020	ECG157	NPN-Si, HV AF Power Amp	300	30 min.	2.63
935-1025	ECG158	PNP-Ge, AF Power Amp	32	90	2.48
935-1030	ECG159	PNP-Si, AF Pre-Amp, Driver	80	180	2.05
935-1035	ECG160	PNP-Ge, RF/IF Amp, Osc, Mix, FM, TV	30	60	3.00
935-1040	ECG161	NPN-Si, Video IF Amp	45	100	2.10
935-1045	ECG162	NPN-Si, Vert. Defl.	400	20 min.	10.50
935-1060	ECG165	NPN-Si, Horiz. Defl.	1500	5 min.	13.50
935-1110	ECG175	NPN-Si, AF Power Amp	200	80	3.13
935-1155	ECG184	NPN-Si, AF Power Amp	60	30 min.	2.50
935-1165	ECG186	NPN-Si, AF Power Amp	60	80	2.88
935-1170	ECG186A	NPN-Si, AF Power Amp, Driver, CB	50	80 min.	2.88
935-1205	ECG192	NPN-Si, AF Power Output	70	150	2.40
935-1215	ECG193	PNP-Si, AF Power Output	70	150	2.48
935-1235	ECG196	NPN-Si, AF Power Output	90	20 min.	3.75
935-1250	ECG199	NPN-Si, Lo-Noise, Hi-Gain Preamp.	70	400 min.	1.05

FIELD EFFECT TRANSISTORS

Stock No.	Mfr's Type	Descr.	Application	Noise Fig. N_F (dB)	Gate Curr. I_G Max. (mA)	EACH
935-0895	ECG132	JFET, N-Ch	RF Amp, Mix, into VHF	4.5 max. 100 MHz	10	2.10

DARLINGTON POWER TRANSISTORS (SILICON)

Stock No.	Mfr's Type	Descr.	Volts BV_{CEO}	Volts BV_{CBO}	Typ. Curr. Gain H_{FE}	EACH
935-1430	ECG243	NPN	80	80	3000	4.20
935-1440	ECG245	NPN	80	80	4000	6.88
935-1450	ECG247	NPN	100	100	3500	7.45
935-1490	ECG257	NPN	80	80	750 min.	4.08
935-1530	ECG265	NPN	50	50	10,000 min.	1.68

DIODES AND RECTIFIERS

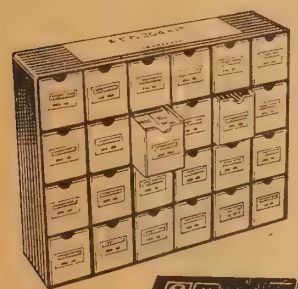
Stock No.	Mfr's Type	Description and Application	EACH
935-0765	ECG109	Ge Diode, 75PRV, General Purpose—Replaces 1N34A, 1N60, 1N295 etc.	.38
935-0780	ECG113	Se Dual Diode, Common Cathode, TV Horiz, AFC Replaces D4, DO-4, DDO-4, etc.	.66
935-0795	ECG116	Si Rectifier, 600 PRV, 1.0A	.73
935-0800	ECG117	Si Rectifier, 600 PRV, 1.0A	.80
935-0850	ECG125	Si Rectifier, 1000 PRV, 2.5A(25°Lead Temp)	1.10
935-1015	ECG156	Si Rectifier, 1000 PRV, 3.0A	1.70
935-1120	ECG177	Si Diode, 200 PRV, trr 15 nanosec. Fast Switching, Detector, etc.	1.13
935-2055	ECG506	Si Diode, 1400 PRV, 1.0A, Damper, Boost, Blanking Rect.	1.25

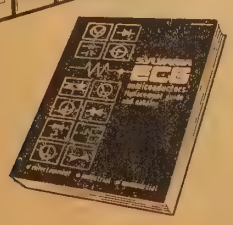
INDUSTRIAL RECTIFIERS

Stock No.	Mfr's Type	PRV Volts	I_{FM} Surge	Amps	EACH
935-4055	ECG5800	50	150A	3	.55
935-4060	ECG5801	100	150A	3	.88
935-4065	ECG5802	200	150A	3	1.03
935-4075	ECG5804	400	150A	3	1.40
935-4085	ECG5806	600	150A	3	1.73
935-4700	ECG5994	600	500A	40	8.88

TRIACS

Stock No.	Mfr's Type	V_{RRM} DC or Pk Volts	I_TRMS For Curr Amps	Max I_{GT} (mA)	Typ V_{GT} (V)	EACH
935-3920	ECG5642	400	2.5	25/40	0.9	2.95
935-3925	ECG5643	600	2.5	25/40	0.9	3.65
935-3935	ECG5651	200	2.5	3	2.2	3.58
935-3940	ECG5652	400	2.5	3	2.2	4.48
935-3775	ECG5603	200	4	30	1.4	2.35
935-3785	ECG5605	400	4	30	1.4	2.95
935-3795	ECG5607	600	4	30	1.4	5.25
935-3815	ECG5614	200	10	50/70	2 max.	3.55
935-3840	ECG5621	25	10	50	2 max.	1.95
935-3865	ECG5626	400	10	50	2 max.	4.15
935-3875	ECG5628	600	10	50	2 max.	5.25
935-3890	ECG5633	200	10	50	2.5 max.	2.63
935-3895	ECG5634	300	10	50	2.5 max.	3.05
935-3900	ECG5635	400	10	50	2.5 max.	3.90
935-3905	ECG5636	500	10	50	2.5 max.	4.08
935-3985	ECG5673	200	15	50/80	1.0	5.70
935-3990	ECG5675	400	15	50/80	1.0	6.70
935-4045	ECG5695	400	40	50/80	1.35	11.80





ECG 304 REPLACEMENT TRANSISTOR KIT

The most popular transistors for replacement—designed for the professional service technician. The ECG 304 kit consists of 48 ECG transistors in 24 popular types housed in a convenient 24 drawer cabinet with special labels. The 24 specially selected types provide replacement for thousands of foreign and domestic transistors. Included in the kit is the ECG semiconductor guide which has full cross-reference information.

935-0002. Type ECG304 Kit ..... **Each 65.63**

Stock No.	Mfr's Type	Description	EACH
935-0715	ECG102	T-PNP, Ge-AF Preamp, Dr, PO	1.98
935-0720	ECG102A	T-PNP, Ge-AF Preamp, Dr, PO	2.10
935-0730	ECG103A	T-NPN, Ge-AF Preamp, Dr, PO	2.48
935-0735	ECG104	T-PNP, Ge-AF PO	2.00
935-0755	ECG107	T-NPN, Si-RF/IF Amp, Osc, Mxr, UHF/VHF	1.65
935-0760	ECG108	T-NPN, Si-RF/IF/Vid Amp, Osc, Mxr, UHF/VHF	2.05
935-0820	ECG121	T-PNP, Ge-AF PO	4.05
935-0835	ECG123	T-NPN, Si-AF Preamp, Dr, Vid Amp, Sync Sep	1.33
935-0840	ECG123A	T-NPN, Si/AF/RF Amp	1.78
935-0845	ECG124	T-NPN, Si-HiV AF PO	2.88
935-0855	ECG126	T-PNP, Ge-RF/IF Amp, Osc, Mxr, AM/VHF	2.38
935-0865	ECG128	T-NPN, Si-AF Preamp, Dr, Vid Amp	2.38

Stock No.	Mfr's Type	Description	EACH
935-0870	ECG129	T-PNP, Si-AF Preamp, Dr, Vid Amp	2.50
935-0875	ECG130	T-NPN, Si-AF, PO	4.75
935-0885	ECG131	T-PNP, Ge-AF PO	3.88
935-0995	ECG152	T-NPN, Si-AF PO	3.00
935-1005	ECG154	T-NPN, Si-Vid Output	4.33
935-1020	ECG157	T-NPN, Si-HiV AF PO	2.63
935-1025	ECG158	T-PNP, Ge-AF PO	2.48
935-1030	ECG159	T-PNP, Si-AF Preamp, Dr	2.05
935-1035	ECG160	T-PNP, Ge-RF/IF Amp, Osc, Mxr, AM/FM	3.00
935-1040	ECG161	T-NPN, Si-Vid IF Amp	2.10
935-1110	ECG175	T-NPN, Si-AF PO	3.13
935-1165	ECG186	T-NPN, Si-AF PO	2.88

Precision Thermistors

1% (0.2°C) INTERCHANGEABLE THERMISTORS (−80° to +150°C)

Negative temp. coeff.; large resistance change for small temp. change. Thermistors of a given value will match standard temp.-resistance curves and each other to ±1% (±0.2°C) at 25°C. Time constant: 1 sec. max. in well stirred oil, 10 sec. max. in still air. Diss. constant: 8 mW/°C in oil, 1 mW/°C in still air. Epoxy encapsulated. Size, Fig. 1. ¼ oz.

Stock No.	Mfr's Type	Base Res. Ohms @ 25°C	Stock No.	Mfr's Type	Base Res. Ohms @ 25°C
997-2400	44001A	100	997-2405	44006	10k
997-2401	44002A	300	997-2406	44007	5000
997R2402	44003A	1000	997-2407	44008	30k
997-2403	44004	2251	997-2410	44011	100k
997-2404	44005	3000	.....	.....	.....

Each: 1-9 ... 9.00 10-29 ....6.00 30-99 ....5.15 100-Up . 4.14



Fig. 1

½% (0.1°C) INTERCHANGEABLE THERMISTORS

- ½% Interchangeable
- Permits Multiple Monitoring From a Single Circuit
- Eliminates Circuit Recalibration When Switching Transducers
- Economical
- Chemically Stable, Long Life

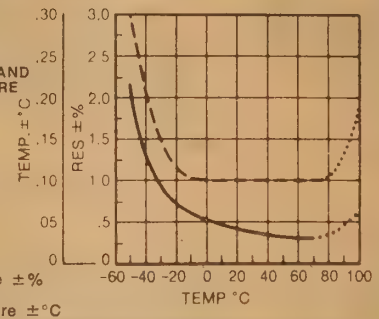
These precision thermistors are ½% interchangeable, so each thermistor in a given value will match standard temperature-resistance curves and each other with maximum error of only ±0.1°C at 25°C. Permits multiple monitoring from a single circuit, and direct dialing of temperature set points

Stock No.	Mfr's Type	Base Res. Ohms @ 25°C	EACH 1-9	EACH 10-29	EACH 30-Up
997-2440	44030	3000	13.19	10.80	9.30
997-2441	44031	10K	13.19	10.80	9.30
997-2443	44033	2252	13.19	10.80	9.30

Eliminates the need to recalibrate circuits when switching transducers. Time constant for thermistors suspended by their leads in well stirred oil is 1 second max.; 10 seconds max. in still air. Dissipation constant in well stirred oil is 8mW/°C and 1 mW/°C min. in still air. Finished thermistors are chemically stable and not significantly affected by aging or exposure to strong fields of hard nuclear radiation. Dimensions shown in Figure 1 (above). Epoxy encapsulated; color coded. Wt. ¼ oz.

TYPICAL RESISTANCE AND TEMPERATURE CURVES

TYPE 44030



—— Resistance ±%

---- Temperature ±°C

LINEAR OUTPUT THERMILINEAR® THERMISTOR NETWORKS

Linear networks consist of two thermistors packaged together and used in conjunction with two precision resistors to produce a varying voltage or resistance linear with temperature change. Voltage can be made to correspond directly to temperature, correct even as to sign; thus +376.2 mV equals +37.62°C, etc. These devices are useful in applications requiring accurate linear information. Linearity deviations are as little as 2 parts in 1000 from 0 to 100°C, with sensitivities, of 20 mV/°C or more, 400 times that of an IC thermocouple. Time constant in well stirred oil is 1 second. Accuracy and interchangeability between sensors is ±0.15°C from −30° to +100°C (except type 44211A, ±0.4°C from 0 to +85°C and ±0.8°C from 0 to −55°C. A Thermilinear component includes a thermistor composite (Fig. 2) and two resistors of the size shown in Fig. 3 (right).

The thermistor and resistor composites are connected in networks as shown in Figures A and B. One of the basic networks is a voltage divider as in Fig. A. The area within the dotted line represents the thermistor composite. The network for linear resistance versus temperature is shown in Fig. B. Av. shpg. wt. 1 oz.

Following is a description of why these networks produce linear information. The equation for a voltage divider network, with R and R_o in series, is:

$$Eout = Ein \frac{R}{R-R_o}$$

where Eout is the voltage drop across R. If R is a thermistor, the Eout is plotted versus temperature, and the total curve will be essentially non-linear and of a general "S" shape with linear or nearly linear portions near the ends and in the center. If R is modified by the addition of other thermistors and resistors, linearity of the center section of the curve can be extended to cover a wide temperature range. This section follows the general equation for a straight line, Y = mx+b, or in terms of a Thermilinear component:

For Voltage Mode
Eout = ±MT+b
where: M is slope in volts/°T
T is temperature in °C or °F
b is value of Eout when T = 0°

For Resistance Mode
Rt = MT+b
where: M is slope in ohms/ T
T is temperature in °C or °F
b is value of R in ohms when T = 0°

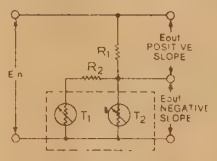


Figure A

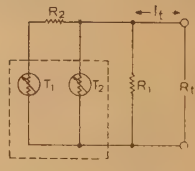


Figure B

Linear Voltage vs. Temperature

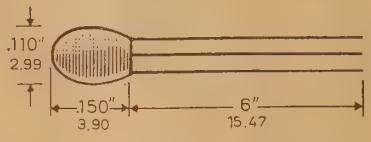


Fig. 2

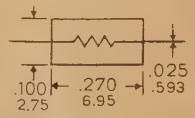


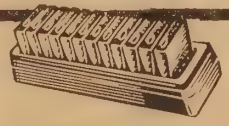
Fig. 3

Stock No.	Mfr's Type	Range	Linearity Deviation	Eo Positive Slope	Resistance Mode, RT=	EACH 1-9	EACH 10-29	EACH 30-99	EACH 100-Up
997-3000	44201	0° to +100°C	±0.216°C	Eout = (+0.0053483 Ein) T+0.13493 Ein	(−17.115)T+2768.23	16.37	14.50	12.35	11.27
997-3001	44202	−5° to +45°C	±0.065°C	Eout = (+0.0056846 Ein) T+0.194142 Ein	(−32.402)T+4593.39	16.37	14.50	12.35	11.27
997R3002	44203	−30° to +50°C	±0.16°C	Eout = (+0.0067966 Ein) T+0.34893 Ein	(−127.096)T+12175	16.37	14.50	12.35	11.27
997-3003	44204	+30° to +100°F	±0.055°F	Eout = (+0.0031289 Ein) T+0.09232 Ein	(−17.834)T+5173.8	16.37	14.50	12.35	11.27
997-3010	44211A	−55° to +85°C	±1.1°C	Eout = (+0.005068 Ein) T+0.4678 Ein	(−17.99)T+2312	16.37	14.50	12.35	11.27
997-2417	44018	−30°C to +100°C		Replacement for types 44201, 44202, 44203, 44204		11.69	10.30	9.50	8.05



EXPERIMENTER'S THERMISTOR PROBE

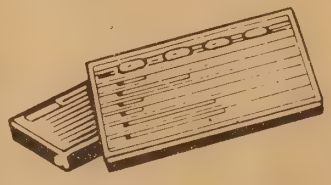
MODEL K600A. Thermistor mounted on card, with instructions and schematic for use as a remote temperature indicator, liquid level-control or time-delay relay. Rated 135k at 25°C; 1 mW/°C dissipation constant, 25 seconds; still-air time constant 0.3 second in rapidly stirred water. Shpg. wt. 2 oz.
791-0714 ..... Each 1.53



ENGINEER'S THERMISTOR KITS

MODEL G-200 STANDARD KIT. Ideal for high school, college or university labs; R&D labs; circuit design; experimental electrical and electronic applications. Contains 12 different thermistors (2 glass probes, 3 beads, 2 discs, 3 rods, 2 washers). Each thermistor is packed with specification sheets showing complete characteristics. Shpg. wt. 1 lb.
791-0449 ..... Each 19.95

ECONOMY THERMISTOR KITS



MODEL G-701 ECONOMY KIT. 10 glass beads and probes, manual and computer. Shpg. wt. 1 lb.
791-0453 ..... Each 12.47

UNI-CURVE THERMISTOR KIT



- Complete With Data Listings

MODEL G-500. Has 6 standard R-T curve-matched interchangeable thermistors (3k, 5k, 10k, 30k, 50k, 100k). With data sheets, full specifications and dissipation constant plus time constant listings. Wt. 1 lb.
791-0451 ..... Each 19.95

Allied Electronics Supplies Thermistors to Meet Every Requirement

THERMISTOR ENGINEERING PACKAGE



- Reduces Lengthy Computations
- Gives Resistance Reading

THERMISTOR "COMPUTER"

A handy 5 x 8" "Computer" reduces lengthy computations to a single, slide-rule setting. Gives resistance readings directly opposite all temperature points of thermistor curves. Helps in selection of configuration.

THERMISTOR MANUAL

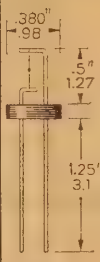


The thermistor manual is a step by step primer that is informative and provides assistance from basic definition and characteristics to final selection for specific applications. This manual explains all thermistors functions. Includes reference EMC-6 for R-T curve Data. Shpg. wt. 4 oz.

791R0450 Package—Computer and Manual 1.75

MATCHED THERMISTOR ASSEMBLY

- **Each Bead Is Mounted To A Special Hermetically-Sealed Stem.**



Matched pair for use in gas chromotographic equipment and other thermal conductivity gas analysic instruments. Each bead is mounted to a special hermetically-sealed stem. 8 oz.

TYPE G112. R_0 at 25°C, 8000 ohms ±20%; R_0 at 0°C (approx.), 23,200 ohms; at 50°C (approx.), 3,200 ohms. Power, air, 45 mW; helium, 140 mW.

Stock No.	Mfr's Type	Description	EACH 1-9	EACH 10-Up
791-0446	G112	Two GC38L1 units	31.53	25.17

CHECK THE TABLES BELOW FOR THE SPECIFICATIONS YOU NEED

Precision thermal resistors with high negative coefficient of resistance. Resistance drops as temperature increases. Use tiny, fast-response glass-coated beads where temp. goes to 320°C. Rugged medium-small glass probes mount easily and are useful in liquid media. Use discs for medium power and time response applications; rods and washers where high power dissipation is required. Discs, washers and rods for temperatures to +150°C. Wt. 2 oz.

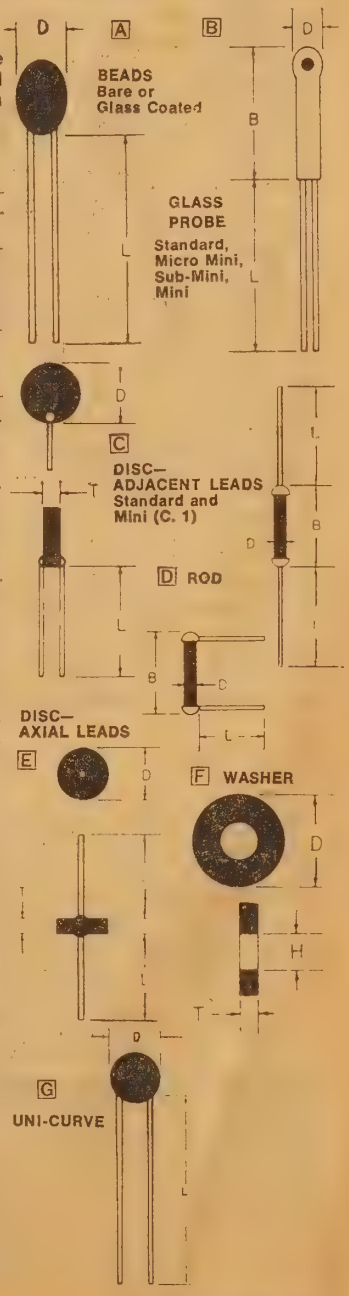


FIG. B — GLASS PROBES

Stock No.	Mfr's Type	R° at 25°C Ohms	% Tol.	Ratio	R-T Curve	D.C. (Mw/°C)	T.C. (Sec)	Lead Dia. In	Lead Dia. MM	Lead Mat'l	L In	L MM	D In	D MM	B In	B MM	Tinned	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-UP
791-0425	GB31P2	1K	20	7.04	11	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.30	1.76	1.65	1.35
791-0431	GB32P2	2K	20	7.04	11	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.30	1.76	1.65	1.35
791-0432	GB32P8	2K	20	7.04	11	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	2	50.80	x	3.88	2.07	1.94	1.58
791-0433	GB34P2	4K	20	7.04	11	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.30	1.76	1.65	1.35
791-0437	GA41P2	10K	20	7.59	12	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.95	2.11	1.98	1.62
791-0404	GA45P2	50k	20	9.53	14	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.63	1.94	1.81	1.49
791-0410	GA51P8	100K	15	10.3	15	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	2	50.80	x	3.88	2.07	1.94	1.58
791-0415	GA52P2	200K	20	10.3	15	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	3.30	1.76	1.65	1.35
791-0422	GA61P2	1 meg.	20	13.12	5	1.7	22	.012	.304	Dumet	2	50.80	.100	2.54	½	12.70	x	4.63	2.46	2.31	1.89

FIG A — GLASS COATED BEADS

791-0427	GB32J2	2K	20	7.04	11	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	3.23	1.72	1.61	1.32
791-0435	GB35J1	5K	20	7.04	11	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	5.35	2.85	2.68	2.18
791-0436	GB41J1	10K	20	7.59	12	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	5.35	2.85	2.68	2.18
791-0401	GA42J16	15K	20	9.1	13	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	5.35	2.85	2.68	2.18
791-0403	GA45J1	50K	20	9.53	14	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	4.40	2.35	2.20	1.80
791-0408	GA51J1	100K	15	10.3	15	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	3.23	1.72	1.61	1.32
791-0412	GA52L1	200K	20	10.9	3	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	4.45	2.38	2.23	1.82
791-0421	GA61J1	1 meg.	20	13.12	5	.4	4	.004	.10	PT-1R	⅜	9.53	.043	1.09	....	....	....	6.23	3.33	3.11	2.55

FIG. D — RODS

791-1200	QA51J1	100K	10	9.1	16	2.5	20	.016	.41	Copper	1⅜	34.93	.053	1.35	½	12.70	x	1.98	1.05	.99	.80

FIG. F — WASHERS

Stock No.	Mfr's Type	R° at 25°C Ohms	% Tol.	Ratio	R-T Curve	D In	D MM	H In	H MM	Thk. In	Thk. MM	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
791-1600	WA21W1	100	10	9.1	16	.77	19.56	.281	7.14	.048	1.22	1.98	1.05	.99	.80

FIG. C AND E — DISCS

Stock No.	Mfr's Type	Fig.	R° at 25°C	% TOL.	Ratio	R-T Curve	D.C. (Mw/°C)	T.C. (Sec.)	Lead Dia. In	Lead Dia. MM	Lead Mat'l	L In	L MM	D In	D MM	Thk. In	Thk. MM	Tinned	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
791-0302	FB31J1	C.1	1K	10	6.95	10	1.0	3	.010	.25	Copper	1½	38.10	.050	1.27	.017	.43	x	2.28	1.22	1.14	.93
791-0300	FA41J1	C.1	10K	10	9.1	16	1.0	3.5	.010	.25	Copper	1½	38.10	.050	1.27	.024	.61	x	2.28	1.22	1.14	.93
791-0304	FP52J1	C.1	200K	10	10.45	1	1.5	4.5	.010	.25	Copper	1½	38.10	.050	1.27	.047	1.09	x	2.28	1.22	1.14	.93
791-0604	JB25J1	C	500	10	6.95	10	3	10	.013	.33	Copper	1½	25.40	.1	2.54	.035	.89	x	1.58	.84	.79	.65
791-0605	JB31J1	C	1K	10	6.95	10	4	10	.013	.33	Copper	1½	25.40	.1	2.54	.069	1.75	x	1.58	.84	.79	.65
791-0600	JA33J1	C	3K	10	9.1	16	3	10	.013	.33	Copper	1½	25.40	.1	2.54	.029	.74	x	1.58	.84	.79	.65
791-0601	JA35J1	C	5K	10	9.1	16	4	10	.013	.33	Copper	1½	25.40	.1	2.54	.048	1.22	x	1.58	.84	.79	.65
791-0603	JA41J1	C	10K	10	9.1	16	4	10	.013	.33	Copper	1½	25.40	.1	2.54	.095	2.41	x	1.58	.84	.79	.65
791-0608	JP43J8	C	25K	10	10.45	1	3	10	.013	.33	Copper	1½	25.40	.1	2.54	.024	.56	x	1.58	.84	.79	.65
791-0610	JP51J1	C	100K	10	11.60	2	4	15	.013	.33	Copper	1½	25.40	.1	2.54	.087	2.21	x	1.58	.84	.79	.65
791-0703	KB21J1	C	100	10	6.95	10	4	16	.020	.51	Copper	1½	38.10	.2	5.08	.028	.71	x	1.35	.71	.67	.55
791-0704	KB22J1	C	200	10	6.95	10	5	18	.020	.51	Copper	1½	38.10	.2	5.08	.055	1.40	x	1.35	.71	.67	.55
791-0706	KB25J1	C	500	10	6.95	10	6	25	.020	.51	Copper	1½	38.10	.2	5.08	.138	3.51	x	1.35	.71	.67	.55
791-0700	KA31L1	E	1K	10	9.1	16	6	20	.020	.51	Copper	1½	38.10	.2	5.08	.038	.97	x	1.35	.71	.67	.55
791-0701	KA33J1	C	3K	10	9.1	16	6	22	.020	.51	Copper	1½	38.10	.2	5.08	.114	2.90	x	1.35	.71	.67	.55
791-0702	KA35J3	C	5K	10	9.1	16	7	35	.020	.51	Copper	1½	38.10	.2	5.08	.190	4.83	x	1.35	.71	.67	.55
791-0712	KP41J3	C	10K	10	10.45	1	4	20	.020	.51	Copper	1½	38.10	.2	5.08	.038	.89	x	1.35	.71	.67	.55
791-0804	LB15J1	C	15	10	6.95	10	7	40	.025	.64	Copper	3¾	95.25	.4	10.16	.055	1.40	x	1.35	.71	.67	.55
791-0802	LA31J1	C	1K	10	9.1	16	10	70	.025	.64	Copper	3¾	95.25	.4	10.16	.152	3.86	x	1.35	.71	.67	.55
791-1002	MB11J1	C	10	10	6.95	10	20	90	.032	.81	Copper	3¾	95.25	.77	19.56	.041	1.04	x	1.35	.71	.67	.55

FIG. G — UNI-CURVE INTERCHANGEABLE THERMISTORS

Tinned copper alloy leads, .008" diameter.

Stock No.	Mfr's Type	R° at 25°C	Temp. Tol. At Range (±°C)	Temp. Range °C	Ratio	R-T Curve	D.C. (Mw/°C)	T.C. (Sec)	L In	L MM	D In	D MM	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
791-1500	UUA33J1	3K	±0.2	0 to +70	....	....	1	10	3	76.20	.095	2.41	7.23	3.99	3.61	2.89
791-1502	UUA41J1	10K	±0.2	0 to +70	....	....	1	10	3	76.20	.095	2.41	7.23	3.99	3.61	2.89

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906-5105	29	ICA-083-WB-G	508-AG10F	8-503-31
906-5150	29	ICA-083-WG-T	508-AG11F	8-503-30
906-5055	29	ICA-143-S-G	514-AG10D	14-513-11
906-5005	29	ICA-143-S-T	514-AG11D	14-513-10
906-5110	29	ICA-143-WB-G	514-AG10F	14-503-31
906-5155	29	ICA-143-WB-T	514-AG11F	14-503-30
906-5060	29	ICA-163-S-G	516-AG10D	16-513-11
906-5010	29	ICA-163-S-T	516-AG11D	16-513-10
906-5115	29	ICA-163-WB-G	516-AG10F	16-503-31
906-5160	29	ICA-163-WB-T	516-AG11F	16-503-30
906-5065	29	ICA-183-S-G	518-AG10D	18-513-11
906-5015	29	ICA-183-S-T	518-AG11D	18-513-10
906-5120	29	ICA-183-WB-G	518-AG10F	18-503-11
906-5165	29	ICA-183-WB-T	518-AG11F	18-503-10
906-5085	29	ICA-224-S-G	522-AG10D	24-6513-11
906-5030	29	ICA-224-S-T	522-AG11D	.....
906-5130	29	ICA-224-WB-G	522-AG10F	.....
906-5175	29	ICA-224-WB-T	522-AG11F	.....
906-5090	29	ICA-246-S-G	524-AG10D	24-6513-11
906-5035	29	ICA-246-S-T	524-AG11D	24-6513-10
906-5135	29	ICA-246-WB-G	.....	24-6503-31
906-5180	29	ICA-246-WB-T	524-AG11F	24-6503-30
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906-5040	29	ICA-286-S-T	528-AG11D	28-6513-10
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906-5185	29	ICA-286-WB-T	528-AG11F	28-6503-30
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906-5045	29	ICA-406-S-T	540-AG11D	40-6513-10
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Stock No.	Page No.	Robinson-Nugent	Augat	Cambion	SAE	Texas Instruments
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906-5245	29	ICL-083-S6-T	308-AG37D	703-4008-01-04-12	T-SA3700-8-B, T-SA3800-8-B, TSA-3100-8B	C-83-08-02
906-5205	29	ICL-143-S6-G	314-AG38D	.....	1-SA3700-14B, 1-SA3800-14B, CSA-3100-14B	C-85-14-00, C-93-14-02
906-5250	29	ICL-143-S6-T	314-AG37D	703-4014-01-04-12	T-SA3700-14B, T-SA3800-14B, TSA-3100-14B	C-83-14-02
906-5210	29	ICL-163-S6-G	316-AG38D	.....	1-SA3700-16B, 1-SA3800-16B, CSA-3100-16B	C-85-16-00, C-93-16-02
906-5255	29	ICL-163-S6-T	316-AG37D	703-4016-01-04-12	T-SA3700-16B, T-SA3800-16B, TSA-3100-16B	C-83-16-02
906-5215	29	ICL-183-S6-G	318-AG38D	.....	1-SA3700-18B, 1-SA3800-18B, CSA-3100-18B	C-85-18-00, C-93-18-02
906-5260	29	ICL-183-S6-T	318-AG37D	703-4018-01-04-12	T-SA3700-18B, T-SA3800-18B, TSA-3100-18B	C-83-18-02
906-5220	29	ICL-203-S6-G	.....	.....	.....	C-85-20-00
906-5265	29	ICL-203-S6-T	.....	.....	.....	.....
906-5225	29	ICL-224-S7-G	322-AG38D	.....	1-SA3700-22B, 1-SA3800-22B, CSA-3100-22B	C-85-22-00, C-93-22-02
906-5270	29	ICL-224-S7-T	322-AG37D	703-4022-01-04-12	T-SA3700-22B, T-SA3800-22B, T-SA3100-22B	C-83-22-02
906-5230	29	ICL-246-S7-G	324-AG38D	.....	1-SA3700-24B, 1-SA3800-24B, CSA-3100-24B	C-85-24-00, C-93-24-02
906-5275	29	ICL-246-S7-T	324-AG37D	703-4024-01-04-12	TSA-3700-24B, TSA-3800-24B, TSA-3100-24B	C-83-24-02
906-5235	29	ICL-286-S7-G	328-AG38D	.....	1-SA3700-28B, 1-SA3800-28B, CSA-3100-24B	C-85-28-00, C-93-28-02
906-5280	29	ICL-286-S7-T	328-AG37D	.....	TSA-3700-28B, TSA-3800-28B, TSA-3100-28B	C-83-28-02
906-5240	29	ICL-406-S7-G	.....	.....	1-SA3700-40B, 1-SA3800-40B, CSA-3100-40B	C-85-40-00, C-93-40-02
906-5285	29	ICL-406-S7-T	.....	703-4040-01-04-12	TSA-3700-40B, TSA-3800-40B, TSA-3100-40B	C-83-40-02
906-5300	29	ICN 063-S3-G	.....	703-3771-01-03-16	.....	.....
906-5305	29	ICN-083-S3-G	.....	703-3772-01-03-16	.....	C-85-08-00, C-92-08-00
906-5310	29	ICN-143-S3-G	514-AG1D 314-AG5D-R	703-3788-01-03-16	CSA-2900-14BCD	C-85-14-00, C-92-14-00
906-5315	29	ICN-163-S3-G	316-AG5D-R 516-AG1D	703-3789-01-03-16	CSA-2900-16BCD	C-85-16-00, C-92-16-00
906-5320	29	ICN-183-S3-G	.....	703-3787-01-03-16	CSA-2900-18BCD	C-85-18-00, C-92-18-00
906-5325	29	ICN-203-S3-G	.....	.....	.....	C-85-20-00
906-5330	29	ICN-224-S4-G	.....	703-3785-01-03-16	.....	C-85-22-00
906-5335	29	ICN-246-S4-G	324-AG2D	703-3790-01-03-16	.....	C-85-24-00, C-92-24-00
906-5340	29	ICN-286-S4-G	328-AG5D	703-3783-01-03-16	.....	C-85-28-00, C-92-28-00
906-5345	29	ICN-406-S4-G	340-AG5D	703-3766-01-03-16	.....	C-85-40-00, C-92-40-00

HEAT SINK CROSS-REFERENCE

Stock No.	Page No.	Thermalloy	Wakefield	AHAM No.
957-1120 957-1500 957-1510 957-1530	28 28 28 28	B-800-320-62 43-02-10 43-02-25 43-03-3		177-80-32-06 I-106K* I-107K* I-103K*
957-1610 957-1700 957-1740	27 26 26	250 1101A 1115B	120-2 254-SI*	 155*, 120*
957-2090	26	2224B	201-SB*, 201-CB*, 201-AB*, 202-SB*, 202-CB*, 203-SB*, 203-CB*, 203-AB*, 206-SB*, 206-CB*, 292-CB*, 292-AB*	173-1*, 173-2*
957-2190 957-2300 957-2310 957-2600 957-2620 957-2640 957-2650	26 28 28 26 26 26 26	2230B-5 4003 4005 6001B-2 6002B-2 6003B-2 6004B-2	 177-3-62* 177-5-30*, 177-5-F* 680-.5A* 680-.75A* 680-1.0A* 680-1.25A*	215-.318-.250 I-177-3-62* I-177-5-30* 433-.50* 434-.75* 435-1.00* 436-1.25*
957-2662	25	6007A		301*
957-2664	25	6010B		305*
957-2666	25	6011B		2145*, 141*, 143*, 145*
957-2668	25	6012B		2142*, 142*, 144*

Stock No.	Page No.	Thermalloy	Wakefield	AHAM No.
957-1000 957-1005	26 26	6013B 6014B		423* 425*
957-2670	26	6025B		364*
957-3820	26	6030B		363*
957-1210	26	6038B	293-3-B*, 291-C2-80AB	
957-3850 957-1215	26 26	6043PB 6045B	291-C2-36AB 293-1-B*, 293-2-B*	
957-1220	26	6047B	293-1-B*, 293-2-B*, 293-3-B*	
957-1200	26	6060B	671-3-B*, 671-86-B*	
957-1205	26	6061B	672-3-B*, 672-66-B*	
957-2680	25	6070B		362*
957-2685	25	6072B	671-220-B*, 672-220-B*	366*, 350-TO220*
957-2700 957-2710	26 26	6103B 6103B Base	 631-3-B*, 632-3-B*, 633-3-B*	350-351* 300-TO3*, 350-TO3*
.....	..	.....	.....	.. ..
.....	..	.....	.....	.. ..

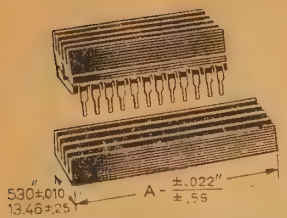
Stock No.	Page No.	Thermalloy	Wakefield	AHAM No.
957-2770	26	6107B-14		361*
957-2800	27	6111-3FT	4721, 6010*, 6015*	1005* 1300*
957-2810 957-2830	27 27	6111B 6141-3FT		S1300-1.5*
957-2870	26	6166B Base	631-66-B*, 632-66-B*, 633-66-B*	
957-2860	26	6166B		300-356*
957-2880	27	6169-3FT	1371	1500
957-2890	27	6169B	641K	S1500-3.0
957-2900	27	6176-3FT	4319	1060
957-2930	27	6401-3FT	1024*	4100
957-2940	27	6401B	401K	S4100-1.5*
957-2950	27	6403B	403K	S4100-3
957-2960	27	6421-3FT	1025	4000
957-2970	27	6421B	421K	S4000-3
957-2980	27	6421B-2	421A*	
957-2990	27	6423B	423K	S4000-5.5
957-3000	27	6423B-2	423A*	
957-3020	27	6441B	441K	S5052
957-3060	27	6500-3FT	1194	
957-3140	27	6660B	486K	S5203-6

*Equivalent package dimensions, and performance.

See Page 2 for the Allied Electronics Facility Nearest You

Heat Sinks

6085 SERIES DIP PACKAGE BOND ON EXTRUSIONS

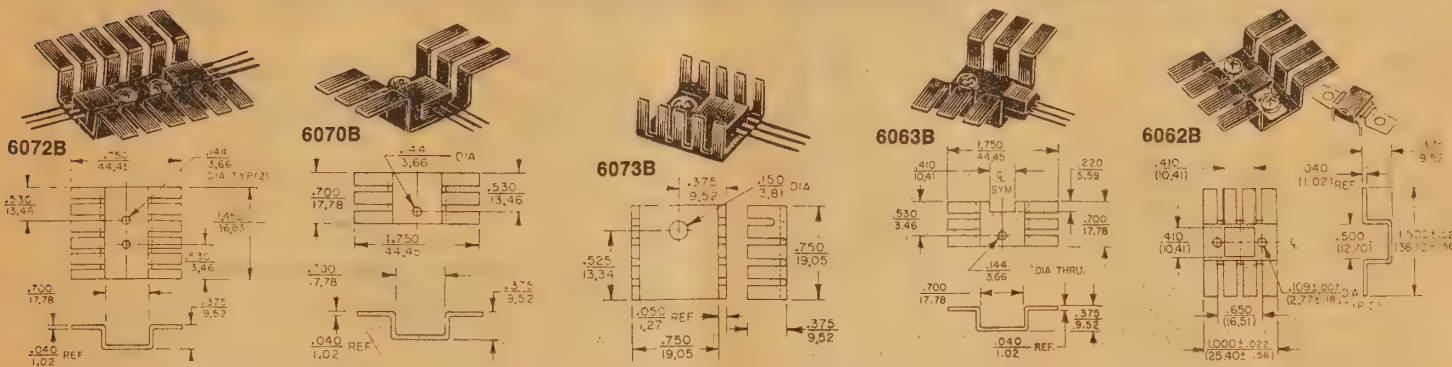


Designed for the 24, 28, 40 and 64 pin dip packages. Can be bonded to the top surface of the package before or after final board assembly. Does not require additional board space. Black anodized finish per MIL-A-8625T Type 11.

Stock No.	Mfr's Type	IC Pin No.	Dim. "A" In.	Dim. "A" (mm)	R/°C/W @ 75 RISE	EACH 1-24	EACH 25-99	EACH 100-499	EACH 500-Up
957-6085	6085B	24	1.250	31.75	37.5	.57	.43	.33	.25
957-6086	6086B	28	1.450	36.83	33.3	.62	.47	.35	.27
957-6087	6087B	40	2.000	50.80	26.8	.70	.52	.40	.31
957-6088	6088B	64	3.200	81.28	20.0	.83	.62	.48	.36

NEW LOW PROFILE HEAT SINKS

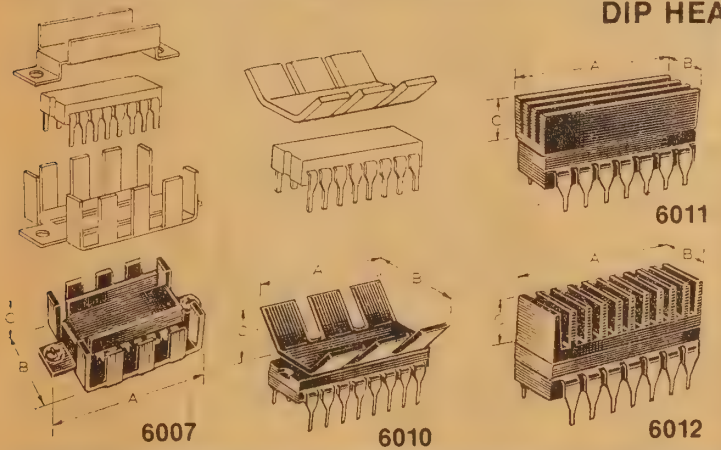
FOR HIGH-DENSITY CIRCUIT BOARD PACKAGING (.500" Centerline)



Each member of this low profile plastic power heat sink family is only 0.375" high, designed for use on PC boards mounted on .500" centers. All types (except 6073B) have sufficient clearance under the fins for mounting small components (resistors, diodes, etc.). Type 6062B can be mounted above or below heat sink tabs of the device (above preferred); thus, the tabs protect the device leads and prevent them from coming into contact with the heat sink, avoiding physical damage or shorts. The Performance Charts (available upon request) illustrate thermal resistance and tab temperature rise for each type. As an example, the typical thermal resistance for 6062B heat sink is 20°C/watt at 4 watts power dissipation. *Finish:* All are black anodize per MIL-A-8625.

Stock No.	Mfr's Type	For Use With	Size, Inches (H x W x D)	Finish	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2675	6062B	Fairchild 78MG and 79MG 4-terminal adjustable voltage regulators (T2 case style)	1.000 x 1.500 x .375	Black anodize	.53	.33	.25	.19
957-2677	6063B	TO-202, Motorola case 152 and case 306-02	.700 x 1.750 x .375	Black anodize	.33	.25	.19	.15
957-2680	6070B	TO-220, Motorola case 90 and case 77	.700 x 1.750 x .375	Black anodize	.25	.22	.19	.15
957-2685	6072B	TO-220, Motorola case 90 and case 77	1.450 x 1.750 x .375	Black anodize	.38	.33	.29	.22
957-2687	6073B	TO-220, Motorola case 90 and case 77	.750 x .750 x .375	Black anodize	.18	.16	.13	.10

DIP HEAT SINKS



SERIES 6007 DIP HEAT SINK

Two-piece design provides positive retention and improves thermal performance. Hard anodized insulation finish. Shpg. wt. 1 oz.

Stock No.	Mfr's Type*	Fits Case	Size, Inches "A"	Size, Inches "B"	Size, Inches "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2662	6007A	DIP	1.24	.75	.37	1.95	1.55	1.18	.90

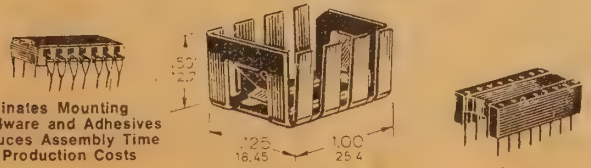
DIP HEAT SINKS—14 OR 16 PINS

The 6010, 6011 and 6012 series are 1-piece heat sinks for 14 or 16 pin dual in-line integrated circuit packages. The devices are bonded to the top surface of the package with Thermabond epoxy or equivalent for minimum interface loss. No additional board space is needed and heat sinks may be added after assembly.

Stock No.	Mfr's Type*	Fits Case	Size, Inches "A"	Size, Inches "B"	Size, Inches "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2664	6010B	DIP	.75	.604	.212	.32	.28	.25	.18
957-2666	6011B	DIP	.75	.25	.19	.45	.40	.34	.27
957-2668	6012B	DIP	.73	.25	.19	.45	.40	.34	.27

***NOTE:** Finish is denoted by suffix letter: **A**, hard anodize per MIL-F-14072, 400 volts insulation; **B**, black anodize per MIL-A-8625 Type II; **C**, gold chromate finish per MIL-C-5541.

TYPE 6020 DIP CLIP SINK



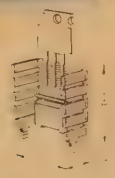
- Eliminates Mounting Hardware and Adhesives
- Reduces Assembly Time and Production Costs

This Type 6020 DIP Clip Sink offers a practical, low-cost approach to effective cooling of DIPS designed to the JEDEC TO-116 case styles. A thermal resistance of 20°C per watt (from device case to ambient air) is obtained by efficiently removing the heat from the underside of the DIP. An advantage of this Clip Sink is the ease of assembly on the production line and its ability to be used with a 14 pin DIP socket. This Clip Sink eliminates the need for mounting hardware and adhesives. The clips on both insides of the Clip Sink securely fasten and position the DIP in place for trouble-free operation.

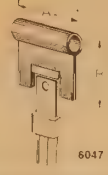
Stock No.	1-9	10-24	25-99	100-Up
957-2500	.63	.51	.39	.30

Heat Sinks

CLIP SINK COOLING DEVICES


6038


6045


6047

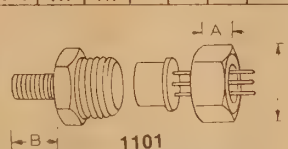
6038 Vertically Mounted Heat Sink for TO-220 devices with an integral clip for device retention. The clip applies force directly to the device case giving uniform pressure over the entire metal tab surface to obtain max. heat transfer to the sink. Saves assembly time and production costs as no mtg. hardware is needed. Raised dimples on the mtg. surface insure fast, positive device location. The **6045 Plastic Power "U" Clip Sink** is designed for TO-220 device case styles. All TO-220 devices can be inserted into the clip sink either from the top or from the bottom. The **6047 "Slip" Clip Sink** is a low cost, easy-to-use clip sink designed for JEDEC TO-202 and Motorola case 152 device case styles. The 6047 clip sink is economical and can be quickly attached to the TO-202 or Case 152 plastic packages on assembly lines. The configuration of the 6047 provides for positive retention of the device and for max. heat transfer from the ctr. mtg. tab to the metal heat sink and surrounding air. The **6041PB, 6042PB and 6043PB Plastic Power Clip-On Heat Sinks** can be attached before or after final board assembly. Each has a "locking tab" to prevent dislodgement by vibration or accidental contact. Side runners are also provided to prevent misapplication and insure proper alignment. Type 6041PB is designed for TO-126 and Motorola case 77 packages, 6042PB is designed for Motorola cases 90 and 199 packages, and 6043PB is designed for TO-220 packages

Stock No.	Mfr's Type	Fits Case	Size Dim. "A" In.	Size Dim. "A" MM	Size Dim. "B" In.	Size Dim. "B" MM	Size Dim. "C" In.	Size Dim. "C" MM	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-1210	6038B	TO-220	1 38	35 05	.500	12 7	1 00	25 4	.38	.36	.29	.22
957-1215	6045B	TO-220	750	19 05	.350	8.89	1.00	25.4	.30	.27	.23	.17
957-1220	6047B	TO-202, 152	.800	20 32	.850	21.59	...	...	.23	.21	.16	.12
957-3840	6041PB	TO-126, 77	.800	20 32	800	20.32	...	...	.15	.13	.11	.09
957-3845	6042PB	TO-127	.800	20 32	1 000	25.40	...	...	.15	.13	.11	.09
957-3850	6043PB	TO-220	.800	20 32	1 000	25 40	...	...	.15	.13	.11	.09

HIGH PERFORMANCE CONVECTION COOLER TO-5 CASE



2205 & 2212B-5


1101

Type 2212B-5 is a 2-piece heat sink for TO-5 transistors and can dissipate more power than any other TO-5 heat sink on the market. Features more exposed surface area and mass. Tapped holes provide retention.

Type 2205 is a 2-piece heat sink for TO-5 transistors. Utilizes a single through-hole instead of individual lead holes. Operates with glass based transistor to cut cost. Tapped holes provide retention.

Stock No.	Mfr's Type*	Fits Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2060	2212B-5	TO-5	1.06,	.38	3.23	2.57	1.95	1.49
957-2000	2205B	TO-5	.81	.3	2.50	2.01	1.53	1.17

1101 TYPE CONDUCTION COOLER/RETAINER-TO-5 CASE

The Type 1101 is a 2-piece heat sink retainer/thermal link for TO-5 transistors. Top and base grip the weld flange for maximum heat transfer to circuit board or other external tension under shock and vibration

Stock No.	Mfr's Type*	Fits Case	Size, Inches "A"	Size, Inches "B"	Size, Inches "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-1700	1101A	TO-5	.25	.375	.5	1.70	1.34	1.02	.78

SERIES 2224 LOW-COST PRESS-ON HEAT SINKS

Easily installed heat sinks don't waste precious space on printed circuit boards. Circular convection-cooling flanges extend from top of heat sink. Economical and versatile enough for almost all PC applications. Wt. 1 oz.


2224 Series


1115 Series


2230 Series

Stock No.	Mfr's Type*	No. of Fins	Fits Case	Size, In. Dim. "A"	Size, In. Dim. "B"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2090	2224B	1	TO-18	.50	.235	.63	.51	.39	.30
957-2110	2225B	2	TO-5	.75	.40	.51	.43	.39	.30
957-2120	2225C	2	TO-5	.75	.40	.63	.49	.37	.28
957-2170	2228B	3	TO-5	.88	.53	.70	.61	.52	.41

SERIES 1115 COMBINATION RETAINER/HEAT SINK

Retain devices and dissipate heat. Lead mounted. Shpg. wt. 1 oz.

Stock No.	Equiv. Thermaloy Type*	Fit Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-1740	1115B	TO-5	.40	.375	.30	.28	.22	.17

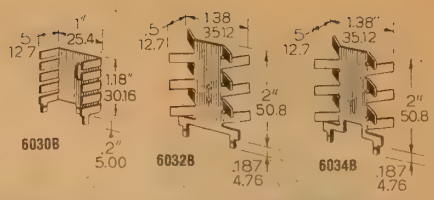
SERIES 2230-5 DIP HEAT SINKS

Unique screw boss for mounting ease. Anodized finish. Type 2230-5 Series is an aluminum press-on heat sink. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type*	Fit Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	Size, Inches Dim. "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2190	2230B-5	TO-5	.75	.25	.....	.41	.36	.31	.24
957-2200	2230C-5	TO-5	.75	.25	.....	.38	.33	.29	.21


6106 & 6107

6025



SERIES 6106 AND 6107 COOLERS FOR PLASTIC POWER DEVICES

For use with flat plastic power transistors, silicon-controlled rectifiers, Triacs and Quadracs and a wide range of advanced technological equipment. Dissipate up to 8 watts. Available in a wide range of popular configurations. Average shpg. wt. 1 oz.

Stock No.	Mfr's Type	Style	Size, Inches Dim. "A"	Size, Inches Dim. "B"	Size, Inches Dim. "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957R2730	6106B	Blank	1.00	1.18	.50	.30	.27	.23	.17
957R2750	6106C-13	2-hole	1.00	1.18	.50	.25	.22	.19	.15
957-2760	6107B	Blank	1.00	.71	.50	.28	.25	.21	.16
957-2770	6107B-14	1-hole	1.00	.71	.50	.28	.25	.21	.16
957-2790	6107C-14	1-hole	1.00	.71	.50	.23	.20	.17	.13

SERIES 6025 VERTICAL PLASTIC POWER COOLER

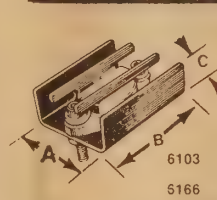
For use with today's compact equipment. Unique standup design permits good performance for plastic power device while taking little board space. Contains feet that add support to soldered leads. Type 6025B fits plastic case style.
See *Note below for suffix information.

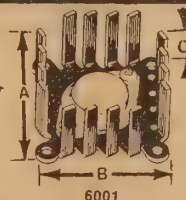
Stock No.	Mfr's Type	TR °C/W	Size, Inches "A"	Size, Inches "B"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2670	6025B	22	.87	1.3	.25	.22	.18	.14
957-2671	6025D	34	.87	1.3	.95	.75	.57	.44

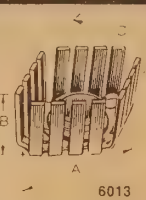
PC BOARD MOUNTED HEATSINKS

Vertically mounted for plastic case SCR's, Triacs, Power Transistors. Heat is conducted through the device tab to fins for dissipation in natural forced convection conditions. The 6034 has a cutout for center tab devices and both 6032 and 6034 allow center clearance for wiring. Material is 3003H14 Aluminum. Standard black anodize finish.

Stock No.	Mfr's Type	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-3820	6030B	.45	.35	.27	.20
957-3825	6032B	.53	.43	.32	.25
957-3830	6034B	.53	.43	.32	.25


6103
5166


6001


6013


6060 & 6061

SERIES 6103 AND 6166 TWO-PIECE HEAT SINKS

Popular for PC board mounting. Heat is transferred from top and bottom of semi-conductor device for maximum transfer. Average shpg. wt. 1 oz.

Stock No.	Mfr's Type*	Fits Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	Size, Inches Dim. "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2700	6103B	TO-3	1.25	1.53	.52	1.08	.85	.65	.49
957-2720	6103C	TO-3	1.25	1.53	.52	.68	.59	.51	.39
957-2860	6166B	TO-66	.89	1.31	.61	1.10	.89	.67	.51
957-2710	6103B base	TO-3	1.25	1.53	.52	.58	.45	.34	.26
957-2870	6166B base	TO-66	.89	1.31	.61	.46	.40	.34	.27

SERIES 6001 HIGH PERFORMANCE COOLERS

All-directional slanted vanes for top efficiency per unit volume occupied. Wt. 1 oz.

Stock No.	Mfr's Type*	Fits Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	Size, Inches Dim. "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-2600	6001B-2	TO-3	1 5	1 5	.50	1.03	83	.63	.48
957-2620	6002B-2	TO-3	1 5	1 5	.75	1.15	.94	.72	.55
957-2640	6003B-2	TO-3	1 5	1 5	1.00	1.28	1.02	.77	.59
957-2650	6004B-2	TO-3	1 5	1 5	1.25	1.40	1.12	.86	.65

SERIES 6013 SPACE SAVER COOLERS

One-pc. lightweight coolers for PC board applications. Unique diamond shape of the TO-3 package for minimum space. 1 oz.

Stock No.	Mfr's Type*	Fits Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	Size, Inches Dim. "C"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-1000	6013B	TO-3	1.88	.50	1.40	.70	.57	.43	.33
957-1005	6014B	TO-3	1.88	.75	1.40	.78	.62	.47	.35
957-1010	6015B	TO-3	1.88	1.00	1.40	.70	.65	.52	.41

Use with TO-3, TO-66 case styles.

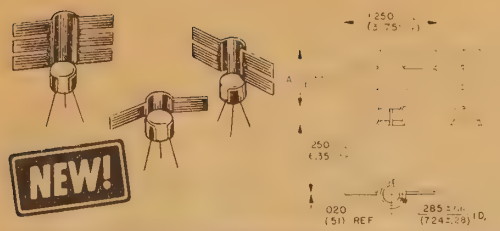
Height only 0.375" — perfect for PC boards with 0.50" centering between boards. Other components can be mounted under fins. Wt. 1 oz.

SERIES 6060 LOW PROFILE HEAT SINKS

Stock No.	Mfr's Type*	Fits Case	Size, Inches Dim. "A"	Size, Inches Dim. "B"	EACH 1-9	EACH 10-24	EACH 25-99	EACH 100-Up
957-1200	6060B	TO-3	1.75	2.0	.58	.46	.34	.27
957-1205	6061B	TO-3	2.25	2.0	.53	.43	.32	.25

***NOTE:** Finish is denoted by suffix letter: **A,** hard anodize per MIL-F-14072, 400 V insul.; **B,** black anodize per MIL-A-8625 Type II; **C,** gold chromate per MIL-C-5541; **D,** nickel plated for soldering lugs.

Heat Sinks, Mounting Kits and Accessories

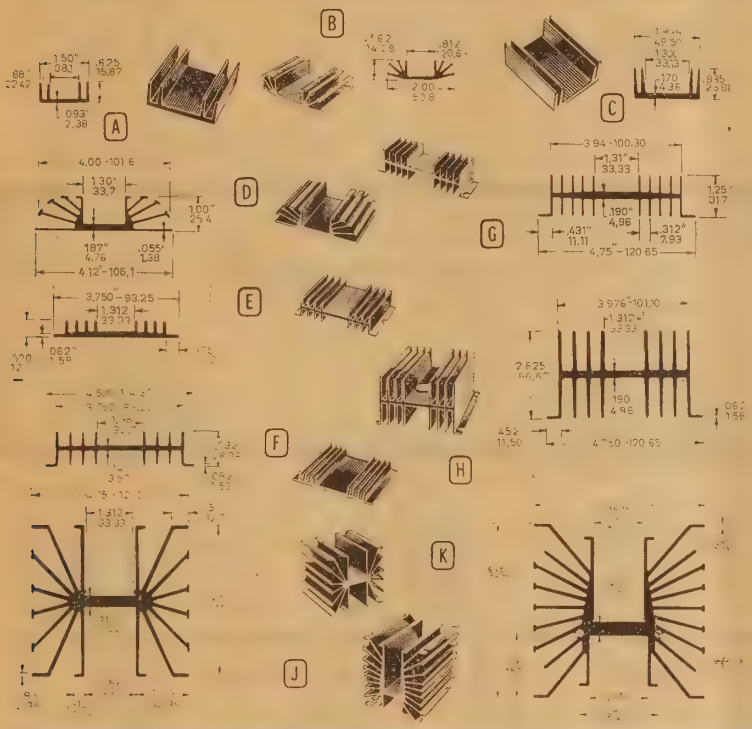


6200 SERIES TO-5 CLIP-ON HEAT SINKS

These series 6200 coolers are designed for those applications where there is a shortage of board space but plenty of vertical space and where low cost is a factor. These light weight, low cost coolers can be easily installed after board assembly without insertion tools. The spring type aluminum alloy material provides excellent device retention. Designed for JEDEC TO-5 and TO-39 case styles. Pre-black anodized finish

Stock No.	Mfr's Type	No. of Fins	Height		Width		R/ °C/W @ 75 C Rise*	Weight		EACH			
			In.	(mm)	In.	(mm)		Lbs.	(gm)	1-24	25-99	100-499	500-Up
957-2915	6201PB	1	.250	6.35	1.250	31.75	54°C/Watt	.0011	.50	.10	.79	.06	.044
957-2920	6202PB	2	.500	12.70	1.250	31.75	43°C/Watt	.0017	.75	.11	.084	.065	.05
957-2925	6203PB	3	.770	19.56	1.250	31.75	38°C/Watt	.0024	1.08	.13	.10	.08	.06

*Typical case to ambient resistance.



HEAT SINK EXTRUSIONS

High quality extrusions in 3-foot lengths. Ideal for building prototype equipment or making special application heat sinks.

Stock No.	Mfr's Type	Fig.	Ship. Wt.	EACH 3-FT. LENGTH		
				1-3	4-11	12-Up
957-2800	6111	A	2 lbs.	6.15	3.48	3.33
957-2830	6141	E	3 lbs.	15.39	7.17	6.66
957R2880	6169	D	4 lbs.	12.12	10.59	8.53
957-2900	6176	C	3 lbs.	9.15	5.55	5.25
957-2930	6401	G	3 lbs.	13.73	11.61	10.80
957R2960	6421	H	8 lbs.	20.54	17.85	16.44
957R3060	6500	F	4 lbs.	14.03	8.70	8.13

EXTRUDED POWER HEAT SINKS

Popular heat sinks for use with common power transistors, diodes and silicon-controlled rectifiers in commercial, industrial or military applications. Excellent wherever space is at a premium. Cover large surface area to give low thermal resistance and more effective cooling. Flanges have notches for mounting. Black anodized finish. Av. shpg. wt. 4 oz.

Stock No.	Mfr's Type	Fig.	Fits Case Style	Lgth. In.	EACH			
					1-9	10-24	25-99	100-Up
957-2810	6111B	A	Blank	1.5	1.03	.83	.63	.48
957-2910	6176B	C	Blank	3.0	6.95	4.88	3.18	1.40
957-2840	6141B	E	Blank	3.0	7.00	5.26	3.51	1.64
957-2850	6141B-2	E	TO-3	3.0	1.80	1.45	1.07	.90
957-2890	6169B	D	Blank	3.0	8.38	6.25	4.05	2.07
957-3070	6500B	F	Blank	3.0	3.73	2.97	2.26	1.72
957R3080	6500B-2	F	TO-3	3.0	4.10	3.26	2.48	1.89
957-3120	6601B	B	Blank	1.5	1.50	1.21	.92	.70
957-2940	6401B	G	Blank	1.5	3.75	3.00	2.28	1.73
957-2950	6403B	G	Blank	3.0	4.65	3.72	2.82	2.16
957R2970	6421B	H	Blank	3.0	4.40	3.53	2.69	2.04
957-2990	6423B	H	Blank	5.5	7.33	5.86	4.45	3.40
957R2980	6421B-2	H	TO-3	3.0	5.08	4.04	3.07	2.34
957-3000	6423B-2	H	TO-3	5.5	7.73	6.18	4.70	3.58
957-3020	6441B	J	Blank	5.5	11.46	10.43	9.38	6.13
957-3140	6660B	K	Blank	6.0	27.12	25.05	23.66	17.02

MOUNTING KITS WITH SOCKETS

MOUNTING KIT NO. 4876 FOR TO-3 CASE

Item	Mfr's Type	Description	Quantity
1		6-20 Screws	2
2	43-03-2	Thermafilm Insulator	1
3	11693	Square Socket	1

957-1270. 1-9 ..... Ea. 1.10 10-24 ..... Ea. .84
25-99 ..... Ea. .64 100-Up ..... Ea. .49

MOUNTING KIT NO. 4875 FOR TO-3 CASE

Item	Mfr's Type	Description	Quantity
1		6-20 Screws	2
2	43-03-2	Thermalfilm Insulator	1
3	11692	Diamond Shaped Socket	1

957-1265. 1-9 ..... Ea. 1.15 10-24 ..... Ea. .87
25-99 ..... Ea. .66 100-Up ..... Ea. .51

MOUNTING KIT NO. 4804 FOR TO-3

Item	Mfr's Type	Description	Quantity
1	43-13-2	Insulator, Thermalfilm	1
2	7721-5PPS	Shoulder Washer*	2
3	MS15795-805	Flat Washer, # 6	2
4	MS35649-264	# 6-32 UNF-2B Hex Nut	2
5	MS51957-30	# 6-32 UNF-2A X ½ L PPH Screw	2
6	MS35338-136	Lockwasher, # 6	2
7	10179	Solder Lug	1

*Clearance hole in chassis or heat sink must clear .200" (5.08mm) maximum shoulder O.D. (Part# 5)

957-1252. 1-9 ..... Ea. 1.08 10-24 ..... Ea. .90
25-99 ..... Ea. .79 100-Up ..... Ea. .51

MOUNTING KIT NO. 4813 FOR TO-66

Item	Mfr's Type	Description	Quantity
1	43-66-2	Insulator, Thermalfilm	1
2	7721-6PPs	Shoulder Washer	1
3	MS15795-803	Flat Washer, # 4	2
4	MS35649-244	# 4-40 UNF-2B Hex Nut	2
5	MS51957-17	# 4-40 UNF-2A X ½ L PPH Screw	2
6	MS35338-135	Lockwasher, # 4	2
7	14371	Solder Lug	1

957-1257. 1-9 ..... Ea. 1.35 10-24 ..... Ea. 1.04
25-99 ..... Ea. .79 100-Up ..... Ea. .51



HEAT SINK ACCESSORIES

THERMALBOND—THERMALLY CONDUCTIVE EPOXY ADHESIVE

- **Gives Exceptional Adhesion to Copper, Aluminum, Steel, Glass, Ceramics, Most Plastics**
- **Bonds Equally Well to Porous or Non-Porous Materials**
- **Suitable for Cryogenic Applications**

Thermalbond is thermally conductive, has high "stick" strength. Bonds to most metals and plastics. Its coefficient of thermal expansion is very compatible with aluminum, copper, and brass making it well suited for thermally bonding semiconductors and other components to chassis or heat sinks. Has good electrical insulating qualities.

Stock No.	Mfr's Type	Description	EACH		
			1-4	5-24	25-Up
957-0376	4952	200 gms. resin	10.74	8.23	7.42
957-0377	4951	100 gms. resin	12.15	6.73	6.07

THERMAL JOINT COMPOUND

An enriched silicone grease material with high thermal conductivity. Removes air gap insulation between semiconductor case and heat sink.



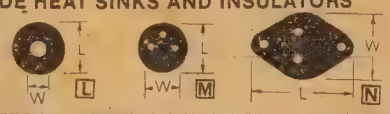
Stock No.	Type No.	De-scription	EACH		
			1-4	5-24	25-Up
957R1600	249	1-oz. Tube	3.10	2.14	1.65
957R1610	250	2-oz. Jar	4.58	3.16	2.43
957-1620	251	1-lb. Can	12.53	9.79	7.65

FOR OTHER ADHESIVES AND COMPOUNDS SEE ALLIED'S CHEMICAL PAGE.

Transistor Sockets and Insulators

BERYLLIUM OXIDE HEAT SINKS AND INSULATORS

High-purity beryllium oxide heat sinks conduct heat better than aluminum, yet insulate better than porcelain and have low capacitance. Their high dielectric strength easily allows safe operating voltages up to 1500 volts or more



Stock No.	Mfr's Type	Fig.	For Case Style	Rated Volts	Size in Inches L	W	H	EACH 1-9	10-24	25-99	100-Up
957-2310	4005	M	TO-5	700	.36	.20	.03	1.03	.71	.54	.45
957-2300	4003	N	TO-3	800	1.56	1.05	06	4.00	3.37	2.58	2.13
957-1120	B-800-320-62	L	¼" Stud	800	.80	.32	.06	2.88	1.98	1.53	1.26

THERMALFILM 1 SEMICONDUCTOR INSULATORS

Replaces mica washers. Homogeneous film will not chip, fracture, peel or break. Dielectric strength, 7000 volts/mil; −260° to +400°C. **Pkg. of 100.**

Stock No.	Mfr's Type	Fig.	For Case Style	Size in Inches L	W	H	PER PKG./100 1-4	5-9	10-Up
957-1530	43-03-3	N	TO-3	1.65	1.06	.002	7.75	6.20	4.40
957-1570	43-66-1	N	TO-66	1.31	.76	.002	6.50	5.20	3.90
957-1500	43-02-10	L	10-32 Stud	.562	.20	.002	4.50	3.60	2.50
957-1510	43-02-25	L	¼" Stud	.812	.265	.002	6.25	4.40	3.20

MICA INSULATORS

Low cost mica insulators are for TO-3, TO-66, TO-127 and TO-220 case styles. Mica provides high maximum operating temperatures and excellent electrical properties. Tolerances are ±.015 (.38) on dimensions and ±.010 (.25) on hole diameters unless otherwise specified.



Stock No.	Mfr's Type	Case Style	Thermal Resist.*	Material Thickness	PER PKG./100 1-9	10-49	50-Up
957-1400	56-03-2	TO-3	.34°C/watt	.002/.003	5.50	3.20	2.70
957-1405	56-66-2	TO-66	.34°C/watt	.002/.003	5.50	3.20	2.70
957-1410	56-77-2	TO-127	1.60°C/watt	.002/.003	5.50	3.20	2.70
957-1415	56-77-10	TO-220	1.60°C/watt	.002/.003	5.50	3.20	2.70

*Interface thermal resistance at 6 in.-lbs. with thermal joint compound

INSUL-COTE THERMAL COATED TAPE

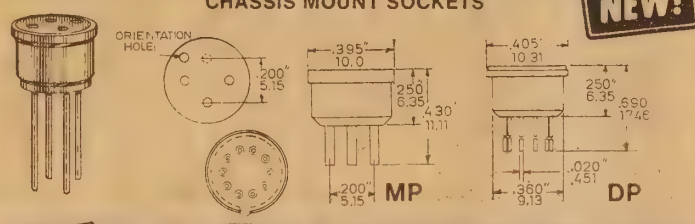
This amazing product consists of an insulator tape precoated with thermal grease, neatly packaged and individually heat sealed for easy, low-cost installation. Simply pull tabs on package to open and apply. Tape is 2¾" wide and has uniform coating thickness that provides for maximum heat transfer



Stock No.	Mfr's Type	EACH 1-99	100-499	500-999	1000-Up
957-1505	43-02-10AP	.21	.16	.14	.11

CHASSIS MOUNT SOCKETS

NEW!



Designed for chassis mounting, rings furnished. Closed entry beryllium copper contacts accepts .015-.020" diameter leads, .125-.190" long. Flexible copper leads can be bent, flexed or cut as desired. Body material is phenolic, terminals are copper.

Stock No.	Mfr's Type	No. of Contacts	Contact Circle Dia.	Case Style	EACH 1-24	25-99	100-Up
906-0010	18-32	3	.100	TO-18	1.55	.97	.86
906-0020	18-42	4	.100	TO-46	1.78	1.12	.99
906-6000	MP-5173	3	200	TO-5	1.73	1.20	1.08
906-6005	MP-5174	4	200	TO-5	1.92	1.20	1.07
906-0520	DP-5178-A	8	.200	TO-5	3.68	2.31	2.05
906-0525	DP-51710-23-A	10	.230	TO-100	5.53	3.08	2.69
906-0530	DP-51712-23-A	12	.230	TO-100	6.90	4.33	3.85

POWER TRANSISTOR SOCKET

NEW!

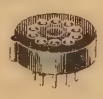


Type MP-3452-T power transistor socket is a standard 10 amp rated unit. Case style: TO-3. No. of lugs: 1. Contact plating: Tin. Contact material: Brass. Body material: Phenolic.

906-6010. 1-24 ..... **Each .60**
25-99 .... **Ea. .49** **100-Up** .... **Ea. .43**

SD SERIES PC MOUNT SOCKETS

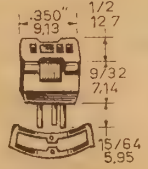
NEW!



Accepts lead diameter from .015-.020" and lengths .090-.120". .150" max. above PC board height. Type SD-51710-23 dia. is .430". Body material: Diallyl Phthalate. Contacts: Beryllium Copper, 4 leaf. Terminals: Brass.

Stock No.	Mfr's Type SD-	No. of Contacts	Contact Circle Dia.	Case Style	EACH 1-24	25-99	100-Up
906-7100	5173	3	.200	TO-5	2.06	1.47	1.29
906-7120	18173	3	100	TO-18	1.66	1.18	1.04
906-7105	5174	4	200	TO-5	2.43	1.74	1.53
906-7125	18174	4	.100	TO-46	1.95	1.40	1.23
906-7110	5178	8	.200	TO-5	3.38	2.41	2.12
906-7115	51710-23	10	.230	TO-100	3.75	2.67	2.35

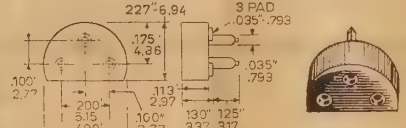
SUBMINIATURE SOCKETS



For test equipment, instruments, radios and other electronic apparatus which requires subminiature tubes. Molded, mica-filled low loss phenolic; silver-plated beryllium copper contacts. Av. shp. wt. 1 oz.

Stock No.	Mfr's Type	Pins	EACH 1-9	10-24	25-49	50-Up
750-0819	2H3	3	.83	.59	.51	.45

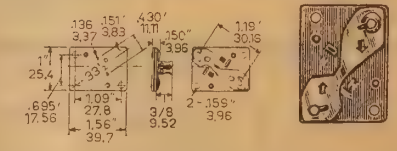
LO-PROFILE TO-5 SOCKET



For all TO-5 cases. Features electr-tin sockets of beryllium copper with integral double springs. Socket ht., 0.130" above PC board. Plastic body, molded from 20% glass-filled nylon for very high heat resistance. Current rating, 2½ amps. Insulation resistance, 100,000 megs. Voltage 2000 VDC; 1500 VAC. Wt. 2 oz.

750R1361. Type 3-LPS-B. 1-24 ..... **Ea. .40**
25-49 .. **Ea. .36** **50-99** .. **Ea. .29** **100-Up** .. **Ea. .24**

POWER TRANSISTOR SOCKET

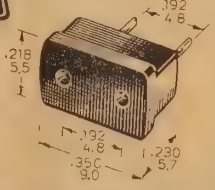


Type 2TS-1. Features laminated top and bottom plates for use under severe vibration conditions due to high initial withdrawal force. Transistor can be grounded to collector plate and be insulated from chassis at the same time. Top and bottom plates of Norplex 106, UL FR94-VO. Formed threads for 6-20 screw. Shpg. wt. 3 oz.

750R0832. 1-24 ..... **Ea. .20** **25-49** .... **Ea. .16**
50-99 ..... **Ea. .14** **100-Up** ..... **Ea. .13**

CRYSTAL SOCKET

NEW!

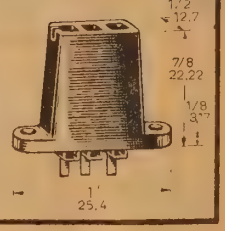


For PCB mounting of HC-18/U Crystals or other components with leads on .192" centers, and diameters to .025". Features pin orientation and standoffs. Body is black phenolic. Contacts are gold plate over nickel plate

906-0030. Type 0002328. **1-24** ..... **Each 1.10**
25-99. ..... **Each .69** **100-Up** ..... **Each .61**

TRANSISTOR TEST SOCKET

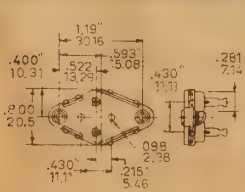
100 to 200°C Test Temperature



Type TS-187. Ideal for aging racks, incoming inspection, life testing, etc. Phenolic construction; beryllium copper contacts. Accepts .017" dia. transistor leads. Test temperature, 100°—200°C. I.R.: 10^5 megohms at 40% R.H. at 24°C. Shpg. wt. 3 oz.

885-0189. 1-9 ..... **Each 5.53** **10-24** ..... **Each 2.95**
25-Up ..... **Each 2.66**

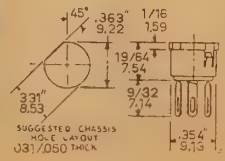
POWER TRANSISTOR SOCKET



For high current and power applications with transistors having TO-3 cases. Precision made from high quality materials. Self-extinguishing phenolic. Phosphor bronze contacts, gold over silver plated. Mounting plate with 6-32 tapped holes. UL listed. **Sold in packages of 100.**

Stock No.	Mfr's Type	For Case	PER PKG. OF 100 1-9	10-Up
920-6266	6266	TO-3	40.00	32.72

TRANSISTOR SOCKET

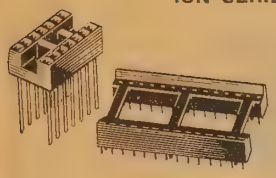


Precision made from high quality materials. Snap-in type transistor socket for TO-5. Also accepts 3 and 4 lead plus 3 lead in-line transistors. Phosphor bronze, cadmium plated contacts with polysulfone body. Sockets fit in "D" shape hole. **Sold in packages of 100.**

Stock No.	Mfr's Type	For Case	PER PKG. OF 100 1-9	10-Up
920-6265	6265	TO-5	20.00	17.14

IC Production Sockets

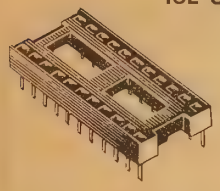
ICN SERIES SOLDER DIP PRODUCTION SOCKETS



These general-purpose high-reliability solder dip sockets feature the RN dual lead side wipe contact design. The contacts are protected from damage by closed entry mold design. Contact will accept leads up to .015″ thick. S4 and S5 types have rib type body structure which improves convection cooling. Body material is black polyester, glass-filled. Contact finish is gold. Temperature range: –65°C to +125°C. PCB hole: .035 ± .002″ (0.89 ± 0.05mm). Socket leads are offset .026″ (0.66mm) from IC leads.

Stock No.	Mfr's Type ICN–	No. of Contacts	Length		Width		EACH		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-5300	063-S3-G	6	.295	7.49	.405	10.28	.35	.29	.26
906-5305	083-S3-G	8	.395	10.03	.405	10.28	.35	.29	.26
906-5310	143-S3-G	14	.695	17.65	.405	10.28	.48	.41	.37
906-5315	163-S3-G	16	.795	20.19	.405	10.28	.54	.45	.41
906-5320	183-S3-G	18	.895	22.73	.405	10.28	.62	.52	.47
906-5325	203-S3-G	20	.995	25.27	.405	10.28	.70	.58	.53
906-5330	224-S4-G	22	1.095	27.81	.575	14.61	.74	.62	.56
906-5335	246-S4-G	24	1.195	30.35	.775	19.68	.78	.65	.59
906-5340	286-S4-G	28	1.395	35.43	.775	19.68	.91	.76	.69
906-5345	406-S4-G	40	1.995	50.67	.775	19.68	1.28	1.08	.98
906-5350	649-S5-G	64	3.195	81.15	1.075	27.31	4.63	3.46	3.08

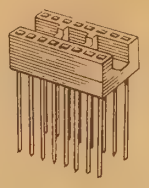
ICL SERIES SOLDER DIP PRODUCTION SOCKETS



Designed primarily for high volume applications. Low profile (.150″) allows very dense board-to-board spacing; the socket is stackable side-to-side and end-to-end to optimize board surface usage. The body material is glass-filled black polyester. Contacts: Beryllium Copper. Suffix "T" denotes tin contact finish, "G" gold contact finish. Temperature range: –65°C to +125°C. PCB hole: .031 ± .002″ (.79 ± .05mm). IC leads and socket leads are coincident. Temperature range: –65°C to +125°C.

Stock No.	Mfr's Type ICL–	No. of Contacts	Length		Width		EACH		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-5200	083-S6-G	8	.395	10.03	.395	10.03	.31	.26	.24
906-5205	143-S6-G	14	.695	17.65	.395	10.03	.35	.29	.27
906-5210	163-S6-G	16	.795	20.19	.395	10.03	.40	.34	.30
906-5215	183-S6-G	18	.895	22.73	.395	10.03	.45	.38	.34
906-5220	203-S6-G	20	.995	25.27	.395	10.03	.50	.42	.38
906-5225	224-S7-G	22	1.095	27.81	.495	12.37	.55	.46	.42
906-5230	246-S7-G	24	1.195	30.35	.695	17.65	.60	.50	.46
906-5235	286-S7-G	28	1.395	35.43	.695	17.65	.70	.59	.53
906-5240	406-S7-G	40	1.995	50.67	.695	17.65	1.00	.84	.76
906-5245	083-S6-T	8	.395	10.03	.395	10.03	.23	.19	.17
906-5250	143-S6-T	14	.695	17.65	.395	10.03	.25	.21	.19
906-5255	163-S6-T	16	.795	20.19	.395	10.03	.28	.23	.21
906-5260	183-S6-T	18	.895	22.73	.395	10.03	.31	.26	.24
906-5265	203-S6-T	20	.995	25.27	.395	10.03	.35	.29	.27
906-5270	224-S7-T	22	1.095	27.81	.495	12.37	.38	.32	.29
906-5275	246-S7-T	24	1.195	30.35	.695	17.65	.43	.36	.32
906-5280	286-S7-T	28	1.395	35.43	.695	17.65	.48	.40	.36
906-5285	406-S7-T	40	1.995	50.67	.695	17.65	.70	.59	.53

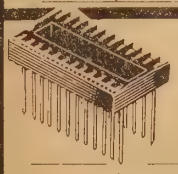
ICY SERIES PRODUCTION SOCKETS



Types with S3 or S4 in mfr's type number are solder tail sockets and meet all of the dimensional specifications of the ICN series. Is recommended for applications where less than 25 in/out cycles are sufficient. PCB hole: .035 ± .002″ (.89 ± .05mm). Socket leads are offset .026″ (.66mm) from IC leads. Types with WB in mfr's type number are wire wrap sockets and include terminal barbs which allow self-lock into PC board, rugged socket body design and RN side wipe contact design. PCB hole: .037 ± .002″ (.94 ± .05mm). Socket leads are offset .018″ (.46mm) from IC leads. Suffix "T" denotes tin contact finish, "G" denotes gold contact finish. Temperature range: –65°C to +125°C.

Stock No.	Mfr's Type ICY–	No. of Contacts	Length		Width		EACH		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-5400	083-S3-T	8	.395	10.03	.405	10.28	.50	.42	.38
906-5405	143-S3-T	14	.695	17.65	.405	10.28	.25	.21	.19
906-5410	163-S3-T	16	.795	20.19	.405	10.28	.28	.23	.21
906-5415	183-S3-T	18	.895	22.73	.405	10.28	.31	.26	.24
906-5420	203-S3-T	20	.995	25.27	.405	10.28	.35	.29	.27
906-5425	224-S4-T	22	1.095	27.81	.575	14.61	.38	.32	.29
906-5430	246-S4-T	24	1.195	30.35	.705	17.91	.43	.36	.32
906-5435	286-S4-T	28	1.395	35.43	.705	17.91	.48	.40	.36
906-5440	406-S4-T	40	1.995	50.67	.775	19.68	.70	.59	.53
906-5445	083-WB-G	8	.395	10.03	.440	11.18	.47	.40	.36
906-5450	143-WB-G	14	.695	17.65	.440	11.18	.61	.52	.47
906-5455	163-WB-G	16	.795	20.19	.440	11.18	.70	.59	.53
906-5460	183-WB-G	18	.895	22.73	.440	11.18	.79	.66	.60
906-5465	203-WB-G	20	.995	25.27	.440	11.18	.88	.74	.67
906-5470	224-WB-G	22	1.095	27.81	.540	13.72	.96	.81	.73
906-5475	246-WB-G	24	1.195	30.35	.740	18.80	1.05	.88	.80
906-5480	286-WB-G	28	1.395	35.43	.740	18.80	1.23	1.03	.93
906-5485	406-WB-G	40	1.995	50.67	.740	18.80	1.75	1.47	1.33

AS/U SERIES WIRE WRAP PROTOTYPE SOCKETS



Wire wrap contacts design for maximum retention. Unique design allows wire wrap on same side of PC board as IC mount. Body material is black nylon, glass-filled. Contacts are beryllium copper with gold finish. PCB hole. .037 ± .002″ (.94 ± .05mm). Socket leads are offset .100″ (2.54mm) inside IC leads. Temperature range: –65°C to +150°C.

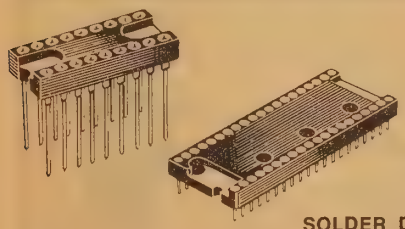
Stock No.	Mfr's Type AS–	No. of Contacts	Pin Lgth.		Pin Spacing Socket Edge		Each		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-0100	143-U3-G	14	.400	10.16	.100	2.54	1.86	1.16	1.04
906-0105	163-U3-G	16	.400	10.16	.100	2.54	2.11	1.32	1.18
906-0110	203-U3-G	20	.400	10.16	.100	2.54	2.65	1.66	1.47
906-0115	246-U3-G	24	.400	10.16	.100	2.54	3.18	1.98	1.76
906-0120	286-U3-G	28	.400	10.16	.100	2.54	3.73	2.33	2.07
906-0125	406-U3-G	40	.400	10.16	.100	2.54	5.28	3.30	2.94



DIP EXTRACTOR TOOL

All integrated circuits can be safely and easily removed from any socket. Particularly useful in high-density packaging situations.

906-0500. Type DILET-3 ..... **Each 2.95**



ICA SERIES SOLDER DIP AND WIRE WRAP PRODUCTION SOCKETS

Pin socket contacts for high reliability and high retention. Low profile body with mounting holes provided. "S" in mfr's type number indicates solder dip sockets. Body material is glass-filled black polyester. Contacts are beryllium copper. PCB hole: .035 ± .002″ (0.89 ± 0.05mm). "WB" in mfr's type number indicates wire wrap sockets. Body material is black polyester, glass-filled. Beryllium copper contacts. PCB hole: .055 ± .002″ (1.40 ± 0.05mm). Suffix "G" denotes gold contact finish, "T" denotes tin contact finish. IC leads and socket leads are coincident. Temperature range: –65°C to +150°C.

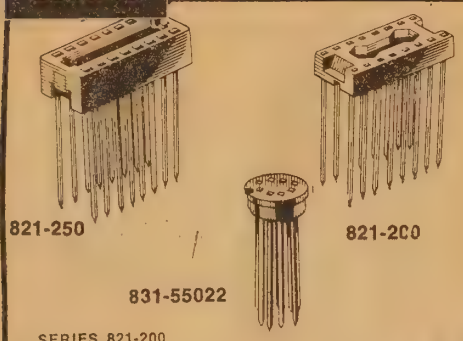
SOLDER DIP

Stock No.	Mfr's Type ICA–	No. of Contacts	Length		Width		Each		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-5000	083-S-T	8	.400	10.16	.400	10.16	.67	.48	.42
906-5005	143-S-T	14	.750	19.05	.400	10.16	.94	.66	.59
906-5010	163-S-T	16	.850	21.59	.400	10.16	1.08	.76	.68
906-5015	183-S-T	18	.900	22.86	.400	10.16	1.24	.88	.78
906-5020	203-S-T	20	1.000	25.40	.400	10.16	1.37	.97	.86
906-5030	224-S-T	22	1.150	29.41	.500	12.70	1.51	1.07	.95
906-5035	246-S-T	24	1.200	30.48	.750	19.05	1.64	1.16	1.03
906-5040	286-S-T	28	1.400	35.56	.750	19.05	1.91	1.35	1.20
906-5045	406-S-T	40	2.000	50.80	.750	19.05	2.75	1.95	1.73
906-5050	083-S-G	8	.400	10.16	.400	10.16	.81	.57	.51
906-5055	143-S-G	14	.750	19.05	.400	10.16	1.10	.78	.69
906-5060	163-S-G	16	.850	21.59	.400	10.16	1.26	.89	.79
906-5065	183-S-G	18	.900	22.86	.400	10.16	1.45	1.03	.91
906-5070	203-S-G	20	1.000	25.40	.400	10.16	1.61	1.14	1.01
906-5085	224-S-G	22	1.150	29.41	.500	12.70	1.78	1.26	1.11
906-5090	246-S-G	24	1.200	30.48	.750	19.05	1.94	1.37	1.22
906-5095	286-S-G	28	1.400	35.56	.750	19.05	2.26	1.60	1.42
906-5100	406-S-G	40	2.000	50.80	.750	19.05	3.23	2.28	2.03

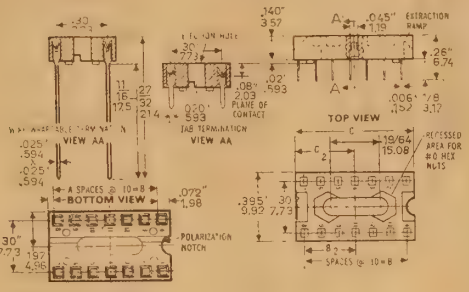
WIRE WRAP

Stock No.	Mfr's Type ICA–	No. of Contacts	Length		Width		EACH		
			In.	mm	In.	mm	1-24	25-99	100-Up
906-5105	083-WB-G	8	.400	10.16	.400	10.16	1.10	.78	.69
906-5110	143-WB-G	14	.750	19.05	.400	10.16	1.63	1.15	1.02
906-5115	163-WB-G	16	.850	21.59	.400	10.16	1.82	1.29	1.14
906-5120	183-WB-G	18	.900	22.86	.400	10.16	2.08	1.47	1.31
906-5125	203-WB-G	20	1.000	25.40	.400	10.16	2.32	1.64	1.45
906-5130	224-WB-G	22	1.150	29.21	.500	12.70	2.50	1.78	1.58
906-5135	246-WB-G	24	1.200	30.48	.750	19.05	2.73	1.93	1.71
906-5140	286-WB-G	28	1.400	35.56	.750	19.05	3.28	2.33	2.06
906-5145	406-WB-G	40	2.000	50.80	.750	19.05	4.63	3.27	2.90
906-5150	083-WB-T	8	.400	10.16	.400	10.16	.83	.59	.52
906-5155	143-WB-T	14	.750	19.05	.400	10.16	1.28	.91	.81
906-5160	163-WB-T	16	.850	21.59	.400	10.16	1.44	1.02	.91
906-5165	183-WB-T	18	.900	22.86	.400	10.16	1.66	1.17	1.04
906-5170	203-WB-T	20	1.000	25.40	.400	10.16	1.84	1.30	1.15
906-5175	224-WB-T	22	1.150	29.21	.500	12.70	2.00	1.42	1.26
906-5180	246-WB-T	24	1.200	30.48	.750	19.05	2.16	1.53	1.36
906-5185	286-WB-T	28	1.400	35.56	.750	19.05	2.65	1.87	1.66
906-5190	406-WB-T	40	2.000	50.80	.750	19.05	3.70	2.61	2.32

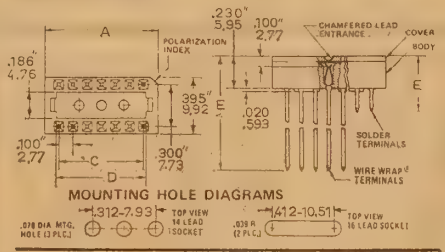
Integrated Circuit Sockets



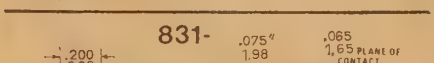
SERIES 821-200



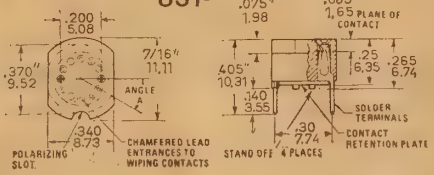
SERIES 821-250



MOUNTING HOLE DIAGRAMS



831-



PRODUCTION SOCKETS

SERIES 821-200 DUAL-IN-LINE

- Single-Piece Construction
- Snap-On Insulated Lid for Easy Contact Replacement
- Use to Replace DIP Devices Without Risk of Unsoldering Them from PC Boards

High reliability production mounting sockets for dual-in-line IC devices. They are most useful in production applications where it is desirable to provide easy replacement of individual DIP devices without the risk of unsoldering them from PC boards or the expense of replacing entire boards. Single-piece construction; dual wiping action contacts for round or flat leads. Replaceable contacts in case of damage. Front entry chamfered-maximum lead-in. Snap-on insulated lid for ease of contact replacement. W-W indicates Wire Wrap terminals. *indicates phosphor bronze contacts; all others beryllium copper. Dimension A: 14-pin, 6; 16-pin, 7; 18-pin, 8. Dimension B: 14-pin, .600"; 16-pin, .700"; 18-pin, .800". Dimension C: 14-pin, .695"; 16-pin, .795".

Stock No.	Mfr's Type	Contacts	Terminals	EACH 1-24	25-99	100-Up
713-8508	821-20011-144	14*	Tab	.85	.68	.44
713-8510	821-20011-164	16*	Tab	.98	.46	.45
713R8512	821-20012-144	14	Tab	.88	.41	.40
713R8514	821-20012-164	16	Tab	1.03	.48	.47
713-8516	821 20013-144	14	W-W	1.70	1.02	.80
713-8518	821-20013-164	16	W-W	1.98	1.18	.96

SERIES 821-250 DUAL-IN-LINE

Construction as above. *Solder term.; †Wire Wrap. Dim. "D": 14-pin, .630"; 16-pin, .730". Dim. "E": 25/64" except wire-wrap term., 1 1/16".

Stock No.	Mfr's Type 821-	Contacts	Dimen. (In.) "A"	"B"	"C"	EACH 1-24	25-99	100-Up
713-8500	25011-144	14*	.795	.312	.600	1.63	.77	.75
713-8502	25011-164	16*	.895	.412	.700	1.98	.93	.91
713-8506	25012-164	16†	.895	.412	.700	2.23	1.05	1.04

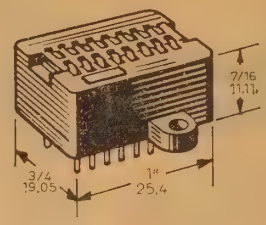
831-55022 TO-CAN

Durable nylon; holds TO-5 cans in firm, long-time contact. Resists dirt and environmental attacks.

SERIES 831-55022

Stock No.	Mfr's Type	Contacts	Angle "A"	EACH 1-24	25-99	100-Up
713-8530	831-55022-084	8	45°	.86	.56	.47
713-8532	831-55022-104	10	36°	1.00	.59	.54

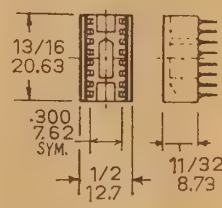
DUAL-IN-LINE SOCKETS FOR CHASSIS MOUNTING



These rugged molded polysulfone dual-in-line sockets stand up to long term test temperatures from −65°C to 150°C. They have excellent wear characteristics and extremely low leakage. 1-piece contacts are precisely made from beryllium copper and are nickel/gold plated to prevent corrosion. Contacts are designed to provide a gentle wiping action for minimal insertion and withdrawal force. These sockets are furnished with handy mounting flanges to give them chassis mounting versatility. They install easily and will not work loose even when severe vibration occurs.

Stock No.	Mfr's Type	No. of Leads	Mounting	EACH 1-24	25-49	50-Up
713-8409	621-01012-141	14	Chassis	4.03	3.22	2.27
713-8410	621-01012-161	16	Chassis	4.43	3.54	2.53

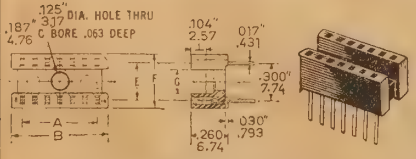
DUAL IN-LINE INTEGRATED CIRCUIT SOCKETS



Especially designed for 14 and 16 pin in-line hybrid integrated circuit packages having .100"x.300" grid spacing. Easily accommodates round or flat pin configurations. Body molded of phenolic plastic. Shipping wt. 2 oz.

Stock No.	Mfr's Type	No. of Contacts	Body Mount	EACH 1-49	50-99	100-249	250-Up
920-6252	6252	14	P.C.	.89	.71	.60	.51
920-6253	6253	16	P.C.	.89	.71	.60	.51

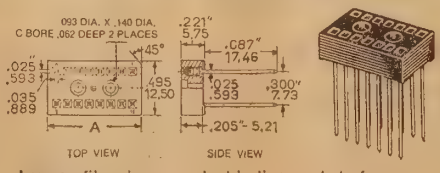
DUAL IN-LINE IC SOCKETS



D.I.P. Series. Bowed contacts provide .006 ohm max. resis. Accepts standard 14, 16 or 24 lead dual in-line IC pkg. with round or flat leads. 14-, 16-, 24-DIP have electrotin plated beryllium copper contacts; phenolic body; types with suffix-1 have gold plated beryllium copper contacts; diallyl phthalate. Current, 1 amp; 1800 V rms between adjacent contacts, −65° to +150°C. 14-contact: .770x.424x3/32" incl. leads; 16-cont.: .870 x.424x3/32"; 24-cont.: 1.296x.746x3/32". Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	No. Contacts	EACH 1-24	25-49	50-99	100-Up
750R1040	14-DIP	14	1.18	.86	.71	.57
750R1041	14-DIP-1	14	1.62	1.14	.96	.77
750R1044	16-DIP	16	1.30	.95	.79	.63
750-1045	16-DIP-1	16	1.84	1.26	1.06	.85
750-1050	24-DIP	24	2.00	1.43	1.20	.97
750-1051	24-DIP-1	24	2.48	1.73	1.46	1.19

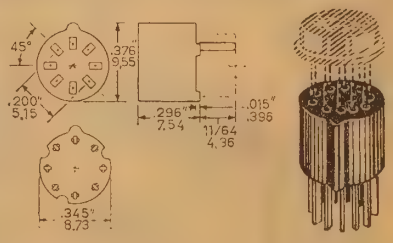
LOW PROFILE D.I.P. SOCKETS



Low profile wire-wrap dual-in-line sockets for use wherever vertical height is at a premium. Available in 14- and 16-pin contact sizes. Accept IC packages with flat or rolled leads and variation in thickness or diameter, .014/.019". Lead depth, 0.170". Dielectric housing of glass nylon (*black; †white). Phosphor-bronze contacts (DIP-2, -3 types gold-plated, others electrotinned). Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Contacts	EACH 1-24	25-49	50-99	100-Up
750R0236	14-W-DIP	14*	1.25	.87	.73	.58
750-0237	14-W-DIP-1	14†	1.25	.87	.73	.58
750-0238	14-W-DIP-2	14*	1.65	1.15	.98	.79
750-0251	14-W-DIP-3	14†	1.65	1.15	.98	.79
750-0258	16-W-DIP	16*	1.27	1.04	.88	.71
750-0259	16-W-DIP-1	16†	1.27	1.04	.88	.71
750-0272	16-W-DIP-2	16*	1.75	1.37	1.15	.94
750-0273	16-W-DIP-3	16†	1.75	1.37	1.15	.94

6, 8, AND 10-LEAD IC SOCKETS

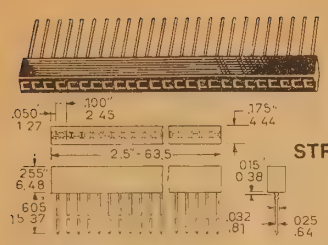


Sockets are specially designed for integrated circuits that mount in 6, 8 or 10-lead, TO-5 cases. Offers exceptionally convenient and simple means for installation and removal of integrated circuits. Also permit quick, trouble-free in-circuit testing and maintenance. Rugged, durable construction of diallyl phthalate. Beryllium copper, gold plated contacts. Average shpg. wt. 1 oz.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-Up
750-0885	6-ICS	1.09	.71	.62	.54
750R0960	8-ICS	1.43	1.06	.86	.73
750R1020	10-ICS	1.58	1.18	.94	.80

See Page 2 for the Allied Electronics Facility Nearest You

Sockets, Test Clips and Test Leads



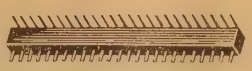
SB AND WB SERIES STRIP SOCKETS

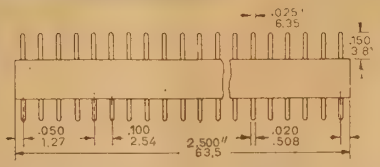
NEW!

SB Series. Solder dip strip socket. Accepts .015" dia. pins. Body material is black polyester, glass-filled. Contact material is phosphor bronze and contact finish is gold. Mounting instructions: PCB hole: .035±.002" (0.89±0.05mm). Socket is offset .026" (.66mm) from IC leads. Temp. range: −65°C to +125°C. **WB Series.** Wire wrap strip socket. Can be mounted end-to-end maintaining .100" spacing. Body material is black polyester, glass-filled. Contacts are phosphor bronze with gold contact finish. Temp. range: −65°C to +125°C. Mounting instructions: PCB hole: .037±.002" (0.94±.05mm) Socket leads are offset .018" (0.46mm) from IC leads.

Stock No.	Mfr's Type	EACH 1-24	25-99	100-Up
906-7000	SB-25-G	1.03	.79	.71
906-8005	WB-25-55-G	1.84	1.40	1.27

TERMINAL HEADERS



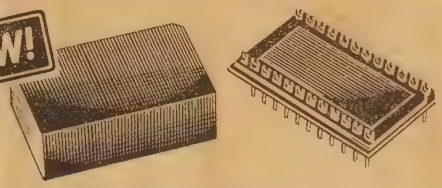


WTS-36S-3-G. Notched for ease of breaking to desired length. Side-to-side and end-to-end stackability. .100" centers. Body material is glass filled nylon. Terminal is phosphor bronze. Contact finish is gold. **WB-25-P.** Mates with strip sockets, at left. Replaces PC pad on head of board for making edge connections, or other pin and socket connections. Glass-filled polyester body. Brass pins, gold-over nickel plated.

Stock No.	Mfr's Type	EACH 1-24	25-99	100-Up
906-9100	WTS-36S-3-G	2.55	1.83	1.61
906-8000	WB-25-P	2.43	1.52	1.35

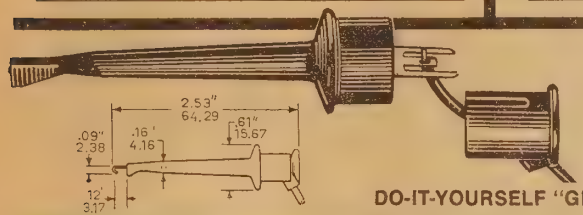
DIP ADAPTER PLUGS AND COVERS

NEW!



Types MPB-143 and **MPB-163** are DIP adapter plugs. Body material is black, glass-filled nylon. Pins are brass, 15μ inch gold plate over 100μ inch nickel. **Type MPB143** has 14 contacts and **Type MPB-163** has 16 contacts. **Types MPC-143-1** and **MPC-163-1** are covers. Material: black glass-filled nylon. Height is .160".

Stock No.	Mfr's Type	Width in.	Length in.	EACH 1-24	25-99	100-Up
906-6100	MPB-143	.470	.750	.68	.43	.38
906-6105	MPB-163	.470	.850	.64	.45	.40
906-6200	MPC-143-1	.160	.750	.39	.24	.21
906-6205	MPC-163-1	.160	.850	.39	.24	.21

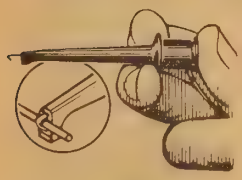


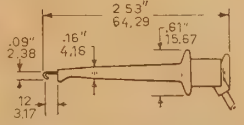
DO-IT-YOURSELF "GRABBER"

This Do-It-Yourself Grabber provides the user with the ability to build his own leads. The unit is completely field-serviceable and features a simplified assembly procedure. The gold plated contact hook can be connected rapidly to component leads, and the specially designed tip slides down over .025 square wire wrap pins. The entire unit is molded of Lexan® Polycarbonate thermoplastic for strength and less chance of melting when soldering lead. Simplified assembly procedure for attaching lead: pull off thumb cap, thread wire through thumb cap, insert end through hole on contact, and solder.

Stock No.	Mfr's Type	Color	EACH 1-9	10-24	25-49	50-Up
885-0951	3925	Red	1.60	1.28	.98	.85
885-0952	3925	Black	1.60	1.28	.98	.85

MINIATURE TEST CLIPS WITH "THE GRABBER"





Miniature test clips for making rapid and reliable tests. Nylon insulation molded directly onto clip and wire provide a strong, reliable integral unit. Operating temp.: −25°C to +105°C. Av. shpg. wt. 2 oz.

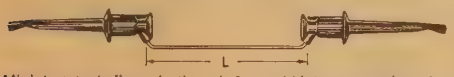
MINI-TEST CLIP ONE END ONLY



Miniature test clip with wire connected one end only. No connector on opposite end allows connection of various components. Wire is 20 AWG, stranded. Extra flexible polyvinyl insulation. .087" O.D.

Stock No.	Mfr's Type	Color	L. In.	EACH 1-9	10-24	25-49	50-Up
885-0900	3780-12	Black	12	1.88	1.50	1.15	1.00
885-0901	3780-12	Red	12	1.88	1.50	1.15	1.00
885R0902	3780-24	Black	24	1.88	1.50	1.15	1.00
885R0903	3780-24	Red	24	1.88	1.50	1.15	1.00
885R0904	3780-48	Black	48	1.98	1.58	1.21	1.05
885R0905	3780-48	Red	48	1.98	1.58	1.21	1.05

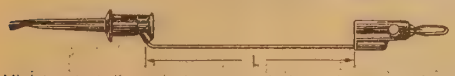
MINI-TEST CLIP BOTH ENDS



Miniature test clip on both ends for rapid interconnection of test points. Connects quickly to test points.

Stock No.	Mfr's Type	Color	L. In.	EACH 1-9	10-24	25-49	50-Up
885R0910	3781-12	Black	12	3.10	2.48	1.90	1.65
885R0911	3781-12	Red	12	3.10	2.48	1.90	1.65
885R0912	3781-24	Black	24	3.10	2.48	1.90	1.65
885R0913	3781-24	Red	24	3.10	2.48	1.90	1.65
885-0914	3781-48	Black	48	3.20	2.56	1.96	1.70
885-0915	3781-48	Red	48	3.20	2.56	1.96	1.70

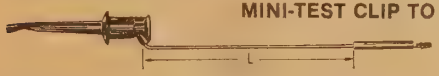
MINI-TEST CLIP TO STACKING BANANA PLUG



Miniature test clip lead adapts to equivalent using banana jacks. Banana plug has molded thermoplastic cover.

Stock No.	Mfr's Type	Color	L. In.	EACH 1-9	10-24	25-49	50-Up
885-0920	3782-12	Black	12	3.10	2.48	1.90	1.65
885-0921	3782-12	Red	12	3.10	2.48	1.90	1.65
885R0922	3782-24	Black	24	3.10	2.48	1.90	1.65
885R0923	3782-24	Red	24	3.10	2.48	1.90	1.65
885R0924	3782-48	Black	48	3.20	2.56	1.96	1.70
885R0925	3782-48	Red	48	3.20	2.56	1.96	1.70

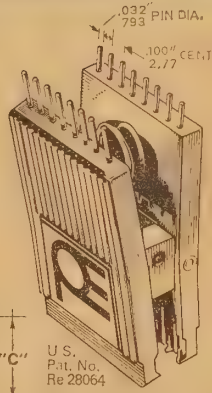
MINI-TEST CLIP TO .025 SQUARE PIN RECEPTACLE



This miniature test clip lead has a gold-plated .025 square pin receptacle which slides over .025 square pins.

Stock No.	Mfr's Type	Color	L. In.	EACH 1-9	10-24	25-49	50-Up
885-0932	3783-24	Black	24	4.23	3.38	2.68	2.28
885-0933	3783-24	Red	24	4.23	3.38	2.68	2.28

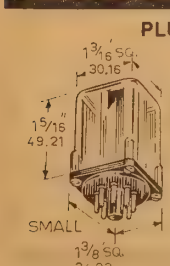
IC TEST CLIPS



The unique design of these Test Clips assures positive, non-shorting electrical connection and positive mechanical clamping to dual-in-line packages. Gold-plated phosphor-bronze spring contacts are designed for wiping action. The "contaccomb" separating the spring contacts provides positive positioning to prevent accidental shorting of adjacent leads. Oscilloscope probes can hang free on the longer terminal wires in the top row of the test clip and not interfere with the terminals in the bottom row. The 14- and 16-pin models are designed for compatibility with DIP packages having a row-to-row dimension of 0.3", while the 24-pin model is designed for compatibility with DIP packages; 0.6 or 0.7". The 0.32" diameter pins are on 0.10" centers. Wt. 3 oz.

Stock No.	Mfr's Type	Dimensions (in.) "A"	"B"	"C"	EACH 1-49	50-99	100 Up
617R0014	TC-14	0.76	0.45	0.51	5.25	4.75	4.45
617R0016	TC-16	0.89	0.45	0.51	5.75	5.20	4.90
617-0024	TC-24	1.29	0.75	0.81	13.85	12.50	11.75
617-0040	TC-40	2.084	0.75	0.81	21.00	17.96	15.75

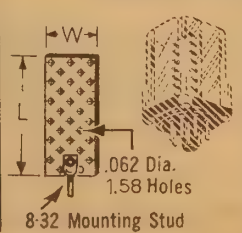
PLUG-IN MOLDED HOUSINGS



Octal headers fit standard sockets. Guide hole tapped 8-32 for terminal board manufacturing stud. Polystyrene housings for use to 170°F. Nylon, 300°F. Sm.: 1⅜" (35mm) sq. x 1 15/16" (49mm) H.; Lg.: 1 15/16" (49mm) sq. x 2 31/32" (95mm) H. Shipping weights: small, 1 oz.; Others, 2½ oz.

Stock No.	Mfr's Type	Size	Housing Material	Housing Color	EACH 1-9	10-24	25-Up
839-3365	665	Small	Poly.	Clear	1.15	.77	.74
839-3343	643	Small	Poly.	Black	1.10	.72	.66
839-3368	668	Large	Poly.	Clear	1.53	.92	.87
839-3377	677	Large	Poly.	Black	1.53	.92	.87
839-3339	639	X-Lge.	Poly	Clear	1.98	1.32	1.21

TERMINAL BOARDS FOR PLUG-INS



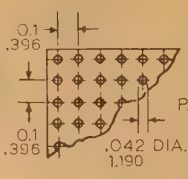
Glass epoxy terminal boards for housings at left. Holes are .062" (1.58mm) dia., spaced in .100" (5mm) and .200" (51mm) alternates. 8-32 threaded stud eyeletted to board for simple assembly with headers. G-10 glass epoxy boards are 1/16" (1.58mm) thick; per GEE MIL-P-1877. Weight 1 oz.

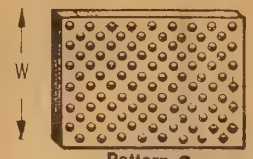
Stock No.	Mfr's Type	Board Size With Stud In.	MM	For Housing Size	EACH 1-9	10-24	25-Up
839-3397	697	1⅛x1¾	29x44	Small	.28	.23	.18
839-3398	698	1½x2¾	38x70	Large	.33	.25	.21

Circuit Boards, Terminals and Kits

MICRO-VECTORBOARD® PRE-PUNCHED CIRCUIT BOARDS

Fire-retardant laminated boards punched with 0.042" (1.067mm) holes for installation of DIP integrated circuits, discrete components and solder or wrapped-wire terminals. May be sawed, punched or drilled. Last three digits in Mfr s part number indicate board thickness. Suffix C1 indicates 2-ounce (56.7gm) copper-clad (one side); WE suffix indicates type FL-GF per MIL-P-13949E NEMA Gradé FR4 and G-10. Epoxy paper boards (suffix EP) are Type PEE per MIL-P-22324, NEMA grade FR-3. Phenolic boards (suffix XXXP) are NEMA grade FR-2. Boards without suffix are epoxy glass composite type FR-4.





Pattern G



A, AA, B, F, H

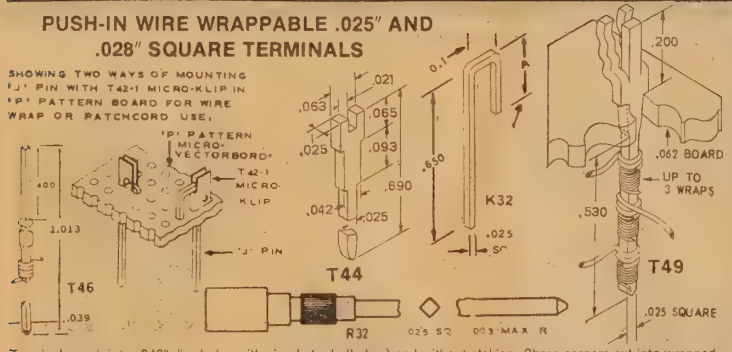
Stock No.	Mfr's Type	Material	Size, (LxW) In.	Size, (LxW) (mm)	Thick. In.	Thick. (mm)	EACH 1-9	EACH 10-Up
977-1170	29P29	Epoxy Glass	3x3	76.2x76.2	1/16	.0625	1.90	1.38
977-1190	44P29	Epoxy Glass	4½x3	114.3x76.2	1/16	.0625	1.80	1.26
977-1196	59P19-032	Epoxy Glass	6x2	152.4x50.8	1/32	.0312	1.53	1.03
977-1197	59P44-032	Epoxy Glass	6x4½	152.4x114.3	1/32	.0312	2.50	1.86
977-1210	64P44-032	Epoxy Glass	6½x4½	165.1x114.3	1/32	.0312	2.55	2.03
977R1212	64P44	Epoxy Glass	6½x4½	165.1x114.3	1/16	.0625	2.55	2.03
977-1218	64P44-WE	Epoxy Glass	6½x4½	165.1x114.3	1/16	.0625	2.95	1.97
977-1220	84P44	Epoxy Glass	8½x4½	215.9x114.3	1/16	.0625	3.65	2.56
977R1255	169P44	Epoxy Glass	17x4½	431.8x114.3	1/16	.0625	6.45	4.30
977-1263	169P59-032	Epoxy Glass	17x6	431.8x152.4	1/32	.0312	8.95	6.69
977-1265	169P59-047	Epoxy Glass	17x6	431.8x152.4	3/64	.0468	9.50	6.80
977-1266	169P79	Epoxy Glass	17x8	431.8x203.2	1/16	.0625	10.92	7.60
977-1267	169P84	Epoxy Glass	17x8½	431.8x215.9	1/16	.0625	10.45	7.85
977-1270	169P84-WE	Epoxy Glass	17x8½	431.8x215.9	1/16	.0625	12.90	8.60
977-1280	349P84	Epoxy Glass	35x8½	889x215.9	1/16	.0625	20.35	18.45
977-1257	169P44-C1	Epoxy Glass	17x4½	431.8x114.3	1/16	.0625	9.67	4.70
977-1264	169P59-032C1	Epoxy Glass	17x6	431.8x152.4	1/32	.0312	10.93	8.49
977-1268	169P84-C1	Epoxy Glass	17x8½	431.8x215.9	1/16	.0625	12.36	10.30
977-1216	64P44-XXXP	Phenolic	6½x4½	165.1x114.3	1/16	.0625	2.23	1.72
977-1261	169P44-XXXP	Phenolic	17x4½	431.8x114.3	1/16	.0625	5.02	3.69
977-1269	169P59-XXXP	Phenolic	17x6	431.8x152.4	1/16	.0625	7.03	4.95
977-1215	64P44-EP	Epoxy Paper	6½x4½	165.1x114.3	1/16	.0625	2.93	1.95
977-1260	169P44-EP	Epoxy Paper	17x4½	431.8x114.3	1/16	.0625	6.65	4.42

PREPUNCHED TERMINAL BOARDS

Vectorbord® prepunched terminal board, Electrical grade laminated with holes located on various centers. May be sawed, punched or drilled. Push-in terminals available. No suffix letters indicate phenolic, XXXP per MIL-P-31158; suffix EP — epoxy paper, EXXXP per MIL-P-22324; suffix WE — epoxy glass composite FR-4 type, except ‡ is G-10 per MIL-P-18177 FR-4 G-10. Patterns A, B, F, G and H are 7/16" (1.588mm) thick, AA, 3/16" (4.76mm) t. Patterns A, AA: .093" (2.38mm) holes on .265" (6.73mm) grid. B: .062" (1.588mm) holes on .188" (4.76mm) grid. F: .062" (1.588mm) holes on .2" (5.08mm) grid. G: .062" (1.588mm) on staggered .1" (2.54mm) grid. H: .062" (1.588mm) holes on .1" (2.54mm) grid. All 17" (431.8mm) long except *8½" (215.9mm). T9-4, T28 terminals fit A and AA. T28, T28S1, T32-1 fit B, F, G and H. Wt. 5 oz. (141.75gm).

Stock No.	Mfr's Type	Width In.	Width (mm)	Pattern	No. Holes	EACH 1-9	EACH 10-Up
977-1175	32AA18	4.8	121.9	AA	32x18	1.70	1.50
977-1188	42G24WE*	4.8	121.9	G	(42x23)x2	3.23	2.37
977-1194	45B30*	5	127	B	45x30	1.55	1.04
977-1201	64A18	4.8	121.9	A	64x18	2.38	1.58
977-1204	64A18WE	4.8	121.9	A	64x18	6.40	4.26
977-1206	64AA18	4.8	121.9	AA	64x18	3.05	2.03
977-1208	64AA32	8.5	215.9	AA	64x32	5.20	3.47
977-1228	85F24EP	4.8	121.9	F	(85x23)x2	4.10	2.74
977-1233	85G24EP	4.8	121.9	G	(85x23)x2	4.10	2.74
977-1234	85G24WE	4.8	121.9	G	(85x23)x2	7.18	4.76
977-1236	85G42EP	8.5	215.9	G	(84x41)x2	7.13	4.75
977-1237	85G42WE	8.5	215.9	G	(85x41)x2	10.15	6.78
977-1238	90B30	5	127	B	90x30	3.42	2.28
977R1271	170H48WE‡	4.8	121.9	H	47x169	7.63	5.08

PUSH-IN WIRE WRAPPABLE .025" AND .028" SQUARE TERMINALS



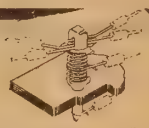
Terminals push into .042" dia. holes with simple tools (below) and without staking. Sharp corners cut into wrapped wires. Pyramidal shaped ends accept wire wrapping bits. Phosphor bronze post. **R32** socket contact accepts DIP leads in 4 fingered gold plated beryllium copper contact. Slotted or tridercated ends hold soldered leads and provide wrap post on opposite end. **T46-5** series accept ribbon cable leads one end and install on board. Terminals tin plated except gold. **T42-1 Microklip.** Solderless for .042" dia. hole. Holds wire in top slot and end hole. Tinned Copper (TC) alloy. **T44 Miniwrap.** Low profile (.065" above board); seats in .042" dia. hole. Wrap post and slot. TC alloy. **T46 Miniwrap.** .028" sq. pin has swaged mid flange for .042" dia. hole. TC alloy. **T49 Klipwrap.** 3-finger clip at top; .025" sq. tail. TC alloy. Pin lgth. below 7/16" board: .560". **K32 Pin.** .025" sq. pin stakes in two adjacent .042" dia. holes. Wrap or solder to two different lgth. tails, .65" and .25". **R32 Socket Pin.** Fits .042" hole. 4-finger copper alloy contact, .025" sq. tail. Nickel gold over brass.

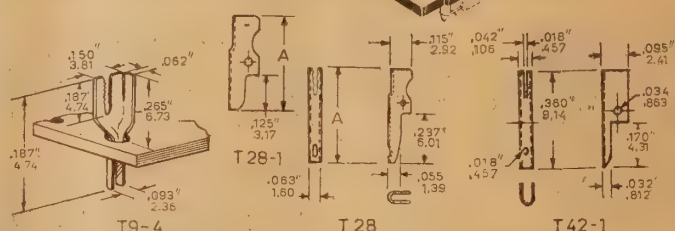
Mfr's Type	Stock No.	Pkg./100 1-9	Pkg./100 10-Up	Stock No.	Pkg./1000 1-4	Pkg./1000 5-Up
T42-1	977R0970	2.33	1.90	977R0971	13.78	11.58
T44	977-0972	3.43	2.28	977-0973	17.50	12.60
T68	977-0984	3.43	2.28	977-5038	20.00	16.00
T46	977-0978	5.13	3.42	977-5035	31.81	22.88
T46-5-9	977-0980	5.22	3.49	977-5030	28.22	25.40
T49	977-5060	4.55	3.03	977-5036	21.29	17.00
K32	977-0595	2.63	1.75	977-0596	13.99	10.06
R32	977-5064	15.15	14.90	977-5040	134.08	101.64

INSERTION TOOLS FOR MICRO PUSH-IN TERMINALS

Stock No.	Mfr's Type	Description	Used For	1-9	10-Up
977-0013	A-13	.....	T44	5.33	2.80
977-0689	P149	Straight	T42-1	3.78	2.03
977-5045	P149A	Wood Handle	T42-1	4.65	2.49
977-5046	P156	.....	T49	6.30	3.35
977-0670	P133B	Straight	T46-5	5.42	2.89

PUSH-IN SOLDERABLE AND SOLDERLESS TERMINALS


T30N5



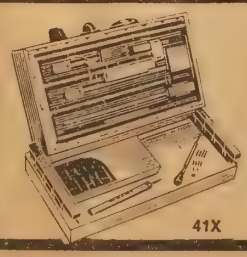
Push-in solderable terminals install easily and hold tightly into indicated pre-drilled holes without staking. Terminals have serrated teeth or slots and holes to hold wires until soldered. **T9-4** series is useful with ordinary resistors and capacitors. **T28** series is smaller and useful with transistors and small ¼ watt resistors. **T42-1** is used with smaller components and DIPs. Up to six leads of different sizes may be held without soldering in reliable connections. Ideal for experimentation and component "burn-in". Solderless **T32A** terminal has top "pusher" and side slots, eliminating need to thread leads through terminal body. Solderless **T30N** terminal has center component wire slot and spring-loaded washer. **T9-4** and **T28** press-fit terminals have serrated slots. Wt. per pkg. of 1000, 12 oz.

Mfr's Type	Desc.	Fits Hole	Stock No.	Pkg./100 1-9	Pkg./100 10-19	Pkg./100 20-Up	Stock No.	Pkg./1000 1-4	Pkg./1000 5-Up
T9-4	Tin-Brass	.093"	977R0923	3.27	2.18	1.74	977R0924	17.15	13.05
T28	Tin-Copper	.062"	977R0950	2.33	1.90	1.71	977R0951	13.77	11.87
T28S1	Sil-Copper	.042"	977-0954	3.43	2.27	2.05	977-0955	22.40	16.10
T42-1	Tin-Copper	.042"	977R0970	2.33	1.90	1.71	977R0971	13.78	11.58
T30N-2	Nic-Brass	.093"	977-0957	12.93	9.62	9.31	977-0958	90.70	72.56
T32A	Nic-Brass	.093"	977-0965	18.15	14.40	13.61	977-0966	178.88	132.97
T32A1	Nic-Brass	.062"	977-0967	18.15	14.40	13.61	977-0968	178.88	132.97

INSERTION TOOLS. Simplify terminal insertion. Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Used For	EACH 1-9	EACH 10-Up
977R0650	P91	T28	1.18	.79
977-0653	P92A	T30N-2	1.03	.67
977-0678	P136	T32	4.15	2.26
977-0667	P122B	T9.4	3.25	1.73

WRAP-POST AND "KLIP-BLOK" KITS


41X


51X

41X Wrap-Post Kit with P180 Slit-N-Wrap Tool. Contains 36 types of components including the P180 tool that wraps insulated wire directly from a self-contained spool. Has ten 16-pin wire wrap DIP sockets; 5 kinds of press-in wrap-posts plus installing tools; Vectorbord socket cards (plain and etched pads and buses); and a 2" high aluminum slotted chassis for holding the card on top or to totally enclose it. Plus bus strips, marker strips, and other hardware. Wt. 4 lbs.

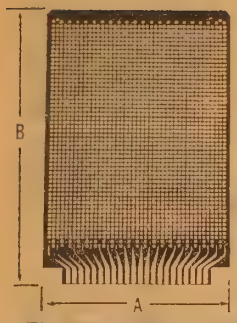
977-1182. 1-4 ..... Each 69.46 5-Up ..... Each 62.15

51X Klip-Blok Kit. (Assembled). Accepts up to 12 DIPS, has 970 tie points. 4½x8x1/16" glass epoxy premarked Micro™ Vectobord base, panel mt. on 1" high aluminum frame with eight 24-quad (T66-96) Klip-Bloks and four 48-contact Klip-Buses installed, ready for plugging in up to 12 DIPS and associated circuitry. Three 5-way binding posts are installed at one end. Has stick-on MS9A and MS10A DIP contact Marker Strips, and special T49-1 Adapter Pins. (Circuit elements not included in kit.) Wt. 1 lb.

977-1185. 1-4 ..... Each 32.95 5-Up ..... Each 29.50

Plugbords, Card Rack and Accessories

IC AND DISCRETE-MOUNT PLUGBORDS

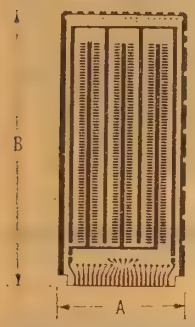


These plugbords offer max. mtg. for flexibility for IC's, discrete components, DIP packaged devices, pins and pin sockets. 0.042" (1.067mm) holes on 0.1" (2.54mm) ctrs., 0.1"(2.54mm) holes for ejectors. Nickel gold plated contacts. Connections to contacts readily made by soldering wires to contact pad or installing contact solder lug. Bord material is Epoxy Glass Composite. Completely wired plugbords may be mounted in Vector card or module cases and cages.

• Suited for a Wide Range of Requirements • Completely Wired Plugboards
• Max. Mounting Flexibility • Nickel Gold Plated Contacts

Stock No.	Mfr's Type	Size A	Size B	Board Mat'l	Contacts Total	Contacts 1 or 2 Sides	Contacts Type	Contacts Spacing	Mating Receptacle	EACH 1-9	EACH 10-19	EACH 20-99	EACH 100-Up
977-1398	3662-1	4½	6½	XXXP Phen.	44	2	Etched	.156	R644 or R644-1	8.93	5.95	5.36	4.99
977R1399	3662-	4½	6½	Epox. Glass	44	2	Etched	.156	R644 or R644-1	11.47	7.65	6.89	6.43
977-1397	3662-2	4½	9.6	Epox. Glass	44	2	Etched	.156	R644 or R644-3	12.60	11.45	10.30	9.61
977-1421	3662-5	4½	4½	Epox. Glass	44	2	Etched	.156	R644 or R644-3	10.33	6.88	6.20	5.78
977-1415	3719-1	4½	6½	Epoz. Glass	72	2	Etched	.100	R636	13.63	9.08	8.17	7.62
977-1401	3673	7.98	9.6	Epox. Glass	80	2	Etched	.125	R680	16.82	15.29	13.76	12.83

GENERAL PURPOSE DIP PLUGBORDS FOR SOLDERING AND WIRE-WRAPPING



Universal mounting for DIP's transistors and discrete components. 2 oz. (56.7gm) copper clad on two sides of flame retardant 0.022" (1.588mm) Type Epoxy Glass Composite FR-4 Type Epoxy Glass 0.042" (1.067mm) holes on 0.1" (2.54mm) centers, tinned oval shaped pads. Holes accept Vector solder Push-In wire-wrappable, socket-pin or inboard terminals. Bus strips interlaced between pads. Etched contacts on .156" (3.969mm) centers. 22 each side. Overall tinned ground plane on back side with etched clearance. Completely wired Plugbords may be mounted in Vector card or modules cages. Gold, nickel-plated contacts. 0.1" (2.54mm) ejector holes. 3 oz. (85.05gm).

Stock No.	Mfr's Type	Size (AxB) In	Size (AxB) (mm)	Wiring Method	Ground Plate	Contacts Total	Contacts Spacing	Mating Receptacle	EACH 1-9	EACH 10-19	EACH 20-Up
977-1402	3677	4½x9.6	114.3x243.8	Solder	No	44	.156"	R644 or R644-2	11.42	10.90	9.82
977R1403	3677-2	4½x6½	114.3x165.1	Solder	No	44	.156"	R644 or R644-3	10.22	9.82	9.17
977-1450	4112-4	4½x6½	114.3x165.1	Solder	Yes	44	.156"	R644 or R644-3	14.96	13.60	12.24
977-1455	4112-5	4½x4½	114.3x114.3	Solder	Yes	44	.156"	R644 or R644-3	13.45	12.23	11.01
977-1440	4066-4	4½x6½	114.3x165.1	W.W.	Yes	72	.100"	R636-1	13.60	12.24	11.42
977-1445	4066-5	4½x4½	114.3x114.3	W.W.	Yes	72	.100"	R636-1	12.23	11.01	10.28
977-1407	3682-2	4½x6½	114.3x165.1	W.W.	No	44	.156"	R644 or R644-3	10.97	9.88	8.76
977-1405	3682	4½x9.6	114.3x243.8	W.W.	No	44	.156"	R644 or R644-3	10.97	9.88	8.76

PLUGBORDS FOR MOUNTING DISCRETE COMPONENTS



Overall grid of .062" (1.57mm) holes on alternate 0.1" (2.54mm) ctrs., and etched 2 oz. (56.69gm) copper nickel gold plated or Elco Varicon contacts. T28 Push-in terminals may be used to mount components, followed by solder on pencil wrap wiring. 838PWE has network of etched pads especially desirable for mounting transistors. *Epoxy Glass – all others Epoxy Paper material, Fire Retardant.

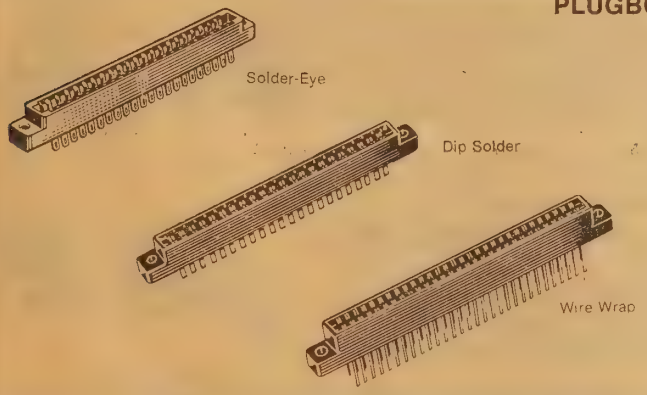
ELCO VARICON TYPES

Stock No.	Mfr's Type	Contacts	Board Size	EACH 1-9	EACH 10-19	EACH 20-99	EACH 100-Up
977-1305	812	16	4½x6½	9.42	5.63	5.08	4.70
977-1307	812WE*	16	4½x6½	9.42	5.63	5.08	4.70
977-1309	837	12	3x4½	6.92	4.14	3.72	3.47
977-1310	837WE*	12	3x4½	6.92	4.14	3.72	3.47
977-1330	848PWE	35	4½x6½	10.05	9.04	8.44	8.03

ETCHED CONTACT PLUGBORDS

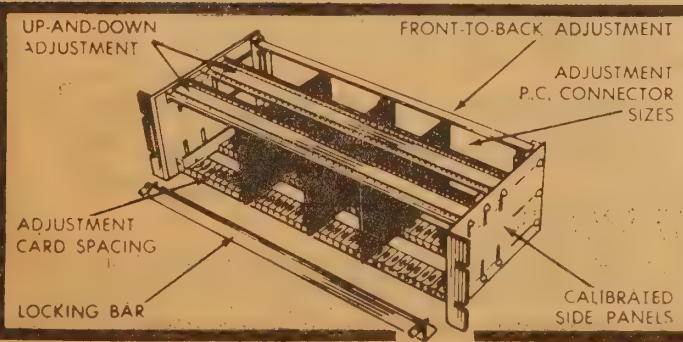
Stock No.	Mfr's Type	No. Contacts Front	No. Contacts Back	EACH 1-9	EACH 10-19	EACH 20-99	EACH 100-Up
977-1312	838	22	22	7.80	5.19	4.66	4.36
977-1313	838A	22	..	6.25	4.62	4.16	3.88
977-1320	838PWE	22	..	9.92	5.92	5.32	4.97
977-1321	838WE	22	22	9.75	6.50	5.89	5.46

PLUGBORD RECEPTACLES



Receptacles have tab styles as indicated, gold plated contacts and high quality casting material. *Elco Varicon. ‡Microprocessor/Interface Plugbords located in Section 1. †Also for dip solder in S100 Motherboard. Shpg. wt. 3 oz.

Stock No.	Mfr's Type	No. Contacts	Centers	Tail Type	For Plugboard Series	EACH 1-9	EACH 10-Up
977-0777	*R612-1	12	0.2"	Solder	837	9.60	5.21
977-0779	*R616-1	16	0.2"	Solder	812	10.50	6.18
977-0781	*R635	35	0.1"	Solder	848	13.58	10.75
977-0782	R636-1	72	0.1"	Wire Wrap	3719-1	8.10	5.70
977-0783	R644	44	.156"	Solder	838, 3662, 4112	4.60	3.32
977-0787	R644-3	44	.156"	Wire Wrap	838, 3662, 4112	7.65	4.71
977-0800	R680	80	.125"	Wire Wrap	3673	9.30	6.22
977-0805	R680-1	80	.125"	Wire Wrap	4350	10.02	7.73
977-0845	R681	100	.125"	Dip Solder	8800, 8801‡	13.77	7.35
977-0850	R681-1	100	.125"	Wire Wrap	8800, 8801‡	11.50	7.35
977-0855	R681-2	100	.125"	Wire Wrap†	8800, 8801‡	11.65	6.20
977-0860	R681-3	100	.125"	Solder-Eye	8800, 8801‡	13.77	7.35



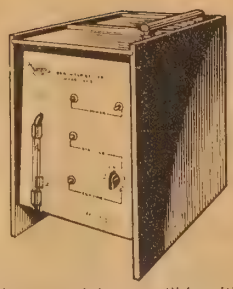
UNIVERSAL PRINTED CIRCUIT CARD RACK

Type 3050. Fits 19" racks. Card guide, connector rails slide on nylon bushing for easy centering adjustment. Capacity for 39 cards and guides. For card size: 1/16" thick, 2 3/8"-1 3/4" width, 3 1/2-7 1/4" long. Card spacing: .400" minimum, centers adjust in .400" increments. Aluminum. 19 x 5 1/4 x 8". Wt. 2 1/2 lbs.

920R2850. 1-9 ..... Each 33.82
10-24 ..... Each 30.00 25-Up ..... Each 26.93

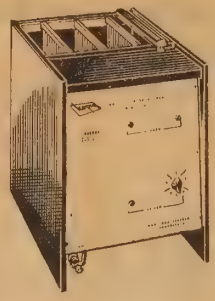
PC Board Tools, Equipment and Supplies

MULTI-USE BENCH-TOP SPRAY ETCHER



Model BTE-202. Construction material compatible with all commonly used chemistry. Etch single or double-clad copper PC boards in less than 3 min. Etch nameplates or chem-milled parts. Adaptable lift-out racks take rigid panels up to 12x12" (304.8x304.8mm) or thin flexible materials. Non-warping transparent lift-up cover permits constant observation, power is cut when cover is lifted. 4 gal. (15.14 l) capacity chamber empties and loads easily. Front-panel controls: function switches with pilots, heater cycling pilot light timer controls pumps, liquid level sight gauge. 115/120VAC, 15 amp. 60 cycles. Complete with 1000W Tatanium heater, two pumps. Wt. 60 lbs. (27.21kg).
835-1032. 1-3 ... Each 618.75 4-Up ... Each 495.00

CONTROLLED TIME SPRAY DEVELOPER



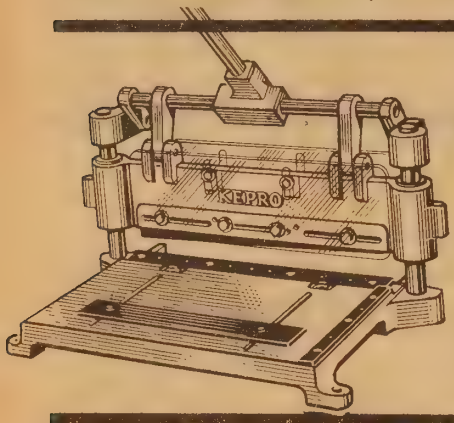
Model BTD-201. Designed to spray develop exposed photosensitive coatings requiring either solvent or alkali based chemistry. 1 to 1½ minutes developing cycles are controlled with a 5 minute electrical timer activating the spray pumps. If the cover is opened when the chemical sprays are operating a lid safety switch disconnects electrical power to the pumps. Panels are supported in from both sides. The drain tube allows for the 4 gal. (15.14 l) chemical sump to be easily changed. Full P.V.C. plastic construction except for metal tank. Electrical requirements: 115VAC, 4 amps., 60 Hz. Size: 22x15x20" (558.8x381x508mm). Wt. 60 lbs. (27.21kg).
835-1025. 1-3 ... Each 606.65 4-Up ... Each 455.00

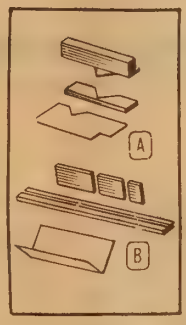
ULTRA-VIOLET EXPOSURE FRAME



Model BTX-200. Allows exposure of photosensitive coatings in less than 2 min. An adjustable 5 min. timer extinguishes high output UV lamps at the end of the exposure cycle. Heavy foam padding provides excellent contact pressure between the negative and the light sensitive surface to be exposed. A pin registry rail is provided for easy 2 side pattern registration. Four .125" (3.17mm) dia. pins are positioned on 0", 4" (101.6mm), 6" (152.4mm) and 10" (254mm) centers. Pre-piloted copper clad or hole patterns punched with the PH-6 shear attachment, both by Kepro, match this pin rail. Constructed of 16 gauge painted steel. 115VAC, 3 amp., 60 Hz. 19½x16½x6" (495.3x419.1x152.4mm). Wt. 30 lbs. (13.62kg).
835-1040. 1-3 ... Each 343.75 4-Up ... Each 275.00

PRINTED CIRCUIT BOARD/SHEET METAL SHEAR





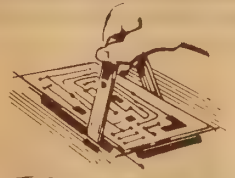
MULTI-6 MS-6. A bench-top hand tool that will perform a variety of circuit board and sheet metal fabricating functions. Basically for cutting clad or unclad plastic materials such as G-10 glass epoxy, XXXP phenolic, FR-3 paper-base epoxy and mat polyesters up to 3/32" (2.38mm) thick or sheet metals up to .040" (1.01mm) thick. Only 15" (381mm) wide and 13" (330.2mm) deep, but will shear panels up to 12" (304.8mm) wide. With squaring gauge and adjustable back length gauge. Wt. 24 lbs. (10.89kg).
835-0218. 1-3 ..... Each 270.00 4-Up ..... Each 217.00

MODEL NA-1 Notching Attachment. Mounts on pressure rail of shear for use in cutting corner A notches of up to 1x1" (25.4x25.4mm) in laminate materials up to 1/16" (1.58mm) thick. Wt. 3 lbs., (1.36kg).
835-0239. 1-3 ..... Each 70.85 4-Up ..... Each 56.70

MODEL PB-1 Press Brake Attachment. Forms 90° bends in soft aluminum up to 18 gauge or sheet B metal up to 22 gauge. Set includes one 12" (304.8mm) brake die section, three brake rails for sections up to 6" (152.4mm) long. Wt. 3 lbs. (1.36kg).
835-0280. 1-3 ..... Each 62.88 4-Up ..... Each 50.30

MODEL PH-6. Pilot Hole Punch. Six .125" (3.17mm) dia. punches spaced at 2" (50.8mm) intervals. 4 lbs., (1.81kg).
835-0290. 1-3 ..... Each 212.50 4-Up ..... Each 170.00

IMMERSION TIN PLATING KIT



ITP-801. Immerse etched PC boards in electroless tin solution for 5 minutes. Oxide-free copper surface of boards obtain a tin plating approx. .00002" thick. Plastic tong handles panels to 7" wide. Complete with thermometer, heat resistant tray for heating solution to 150°F, sufficient solution to tin plate approx. 25 sq. ft. of etched circuit boards. Heat with burner or electric plate, not supplied. 10 lbs.
835R0161. 1-9 ..... Each 18.78 10-Up ..... Each 16.10

STANDARD ETCHED CIRCUIT KIT



S-101A. Produces basic circuit patterns. Liquid or pressure-sensitive tape resists are applied directly to copper-clad boards, then etched. Perforated copper-clad panel speeds component mtg. Includes materials for completely processing three single-clad panels, perforated copper-clad panel. 3×6", 2 lbs.
835-0689. 1-9 ..... Each 6.30 10-Up .... Each 4.87

PROFESSIONAL ETCHED CIRCUIT KIT



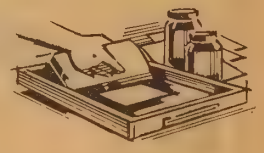
P-101A. Etched circuit kit utilizes photo engraving process to produce professional-quality etched circuits. Negative of layout can be produced photographically or mechanically with materials supplied. A sensitized sheet of XXXP phenolic copper-clad is exposed through your prepared negative, then developed and etched. Includes materials for completely processing three single-clad panels, one 3×3" and two 3×6". 3 lbs.
835-0475. 1-9 ..... Each 10.72 10-Up ..... Each 8.58

P-101A-G PROFESSIONAL ETCHED CIRCUIT KIT. As Above, but G-10 glass epoxy boards instead of XXXP paper-base phenolic boards. 3 lbs.
835-0480. 1-9 ..... Each 13.58 10-Up ..... Each 9.05

ETCHED CIRCUIT PROCESSING CHEMICALS AND PHOTO LAYOUT SUPPLIES

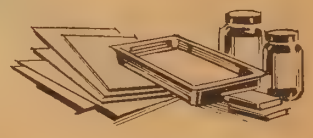
Stock No.	Type	Description	Size	EACH
835-0497	RMP-700A	Resist Marking Pen	.....	1.70
835-0487	R-1PT	Paint Resist (for unsensitized sheet)	16 oz	7.02
835-0730	T-1PT	Resist Thinner	16 oz.	6.13
835-0067	KD-1QT	Developer	1 qt.	6.47
835R0060	KD-1G	Developing Solution (for sensitized sheet)	gal.	11.00
835-0108	E-1QT	Etching Solution — Ferric chloride	qt.	8.00
835R0105	E-1G	Etching Solution — Ferric chloride	gal	9.65
835U0116	E-5G	Etching Solution Ferric chloride base	5 gal.	23.00
835-0128	SP-1G	Etching Powder — sodium persulfate	1 gal.	6.07
835-0139	SP-5G	Etching Powder — sodium persulfate	5 gal.	18.30

SILK SCREEN PRINTING KIT



SC601A. Photo silk screen kit includes materials to produce one silk screen with print area to 7×9" plus silk and film emulsion for two additional patterns. Produces lacquer resistant film type photo stencil. No dark room required. With squeegee, mounting hinges, black and white inks. For screenprinting etched circuit boards, nameplates, instrument panels, decorative prints. Wt. 25 lbs.
835U0715. 1-9 ... Each 42.98 10-Up .... Each 36.84

PHOTO REVERSING KIT

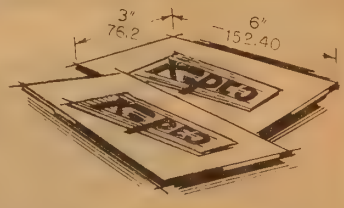


FK-701. Two easy steps prepare line negatives and positives from taped or ink artwork; or to reverse existing negatives and positives. Needs no darkroom, tanks or trays. Includes two pieces of reversing film 10×24", plus all processing chemicals necessary. Shpg. wt. 1½ lbs.
835R0154. 1-9 Each 13.22 10-Up Each 10.58

EXTRA PHOTO REVERSING FILM

RF-1024. For use with above. Size: 10×24". Shpg. wt. 8 oz.
835-0488. 1-9 Ea. 5.40 10-Up Ea. 4.32

EXTRA PHOTO REVERSING FILM DEVELOPER



RFD-1 QT. For use with kits listed above. Shpg. wt. 1 lb.
835-0492. 1-9 Ea. 5.27 10-Up Ea. 4.06

ANODIZED ALUMINUM NAMEPLATE AND PANEL KIT

NP-404. All materials needed to produce detailed aluminum lettering on a black anodized panel. Includes pressure-sensitive opaque letters and numerals; three 3×6" plates; accessories; etching solutions. Shpg. wt. 1½ lbs.
835-0241. 1-9 ..... Each 10.45 10-Up ..... Each 8.95

PC Boards and Copper Patterns

ETCHED CIRCUIT COPPER-FOIL CLAD MATERIALS



- Available Photosensitized or Unsensitized
- Precision-Cut to 1-oz. or 2-oz. Specs.

Laminated 1-oz. (.00135) and 2-oz. (.0127) copper-clad materials. Available in 1/16" XXXP paper base phenolic and G-10 glass epoxy with foil on two sides, except types marked with *, clad one side only. Meet NEMA grade tolerances. Supplied unsensitized for screen processed parts and photosensitized for photo processed boards. Photosensitized materials are ready for exposure with no further sensitizing required.

1/16" G-10 GLASS EPOXY 1 OZ. (.00135) COPPER WEIGHT

Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0309	P1-365G*	1 lb.	3x6"	8.20	6.22	5.18	4.22
835-0315	P1-465G*	1 lb. 2 oz.	4x6"	10.65	8.10	6.88	6.32
835-0321	P1-12125G*	3 lbs. 6 oz.	12x12"	43.45	35.54	33.89	29.32
835-0361	P2-12125G	3 lbs. 10 oz.	12x12"	45.35	36.54	35.37	31.75

PHOTOSENSITIZED

Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0513	S1-365G*	1 lb.	3x6"	11.75	8.70	7.38	6.79
835R0520	S1-465G*	1 lb. 2 oz.	4x6"	12.52	11.60	9.81	9.05
835-0528	S1-665G*	1 lb. 6 oz.	6x6"	17.35	14.19	15.53	12.15
835-0537	S1-7105G*	2 lbs. 2 oz.	7x10"	31.85	24.84	23.05	22.30
835-0546	S1-12125G*	3 lbs. 6 oz.	12x12"	62.90	49.06	44.03	41.57
835-0561	S2-365G	1 lb.	3x6"	13.57	10.75	9.05	8.39
835-0569	S2-465G	1 lb. 3 oz.	4x6"	14.35	11.19	10.50	10.05
835-0577	S2-665G	1 lb. 6 oz.	6x6"	21.55	16.81	15.16	14.29
835-0590	S2-7105G	2 lbs. 2 oz.	7x10"	39.40	30.73	27.58	26.60
835-0597	S2-12125G	3 lbs. 10 oz.	12x12"	76.50	59.67	55.08	53.55

USE ONLY KEPRO OR KODAK CHEMICALS ON THESE BOARDS. SEE PAGE 34 FOR LISTING OF CHEMICALS.

1/16" G-10 GLASS EPOXY 2 OZ. (.0127) COPPER WEIGHT

Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0388	P12-465G*	1 lb. 6 oz.	4x6"	11.55	8.55	7.28	6.67
835-0391	P12-12125G*	3 lbs. 11 oz.	12x12"	45.35	35.37	32.62	31.75
835-0406	P22-12125G	3 lbs. 13 oz.	12x12"	51.85	40.44	37.33	36.30

PHOTOSENSITIZED

Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0613	S12-365G*	1 lb. 2 oz.	3x6"	12.25	9.10	7.73	7.10
835-0617	S12-465G*	1 lb. 8 oz.	4x6"	12.10	9.44	8.90	8.47
835-1015	S12-665G*	2 lbs. 4 oz.	6x6"	20.01	17.15	15.01	14.12
835-0620	S12-7105G*	1 lb. 9 oz.	7x10"	33.10	25.82	24.20	23.17
835-0623	S12-12125G*	3 lbs. 11 oz.	12x12"	64.80	50.54	47.25	45.36
835-0628	S22-465G	1 lb. 8 oz.	4x6"	16.00	12.48	12.00	11.20
835-0632	S22-665G	1 lb. 1 oz.	6x6"	24.00	18.72	17.90	16.80
835-1018	S22-7105G	2 lbs. 14 oz.	7x10"	48.13	41.25	36.10	33.97

1/16" XXXP PAPER BASE PHENOLIC 1 OZ. (.00135) COPPER WEIGHT

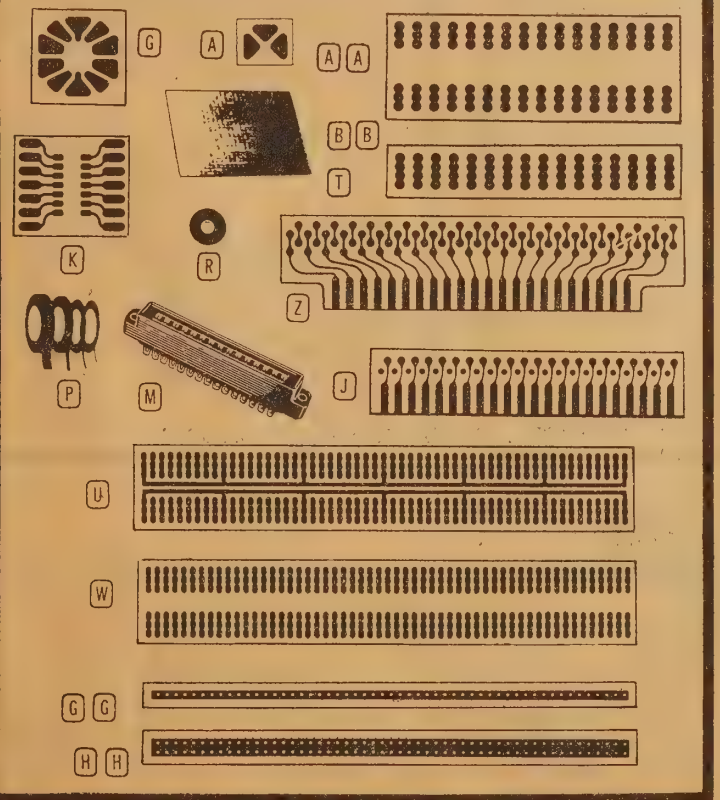
Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0306	P1-365*	1 lb.	3x6"	4.80	3.84	3.20	2.40
835-0312	P1-465*	1 lb. 3 oz.	4x6"	6.75	4.95	4.26	3.65

PHOTOSENSITIZED

Stock No.	Mfr's Type	Wt. per package	Size	PER PKG. OF 5			
				1-4	5-9	10-19	20-Up
835-0509	S1-365*	11 oz.	3x6"	8.10	6.00	5.03	4.68
835-0517	S1-465*	1 lb. 6 oz.	4x6"	10.80	8.00	6.70	6.24
835-0533	S1-7105*	1 lb. 14 oz.	7x10"	15.52	11.60	9.81	9.05

ADHESIVE-BACKED COPPER PATTERNS FOR PC BOARDS

This aerospace proven concept in circuit packaging permits rapid assembly of prototypes and limited quantity production systems directly from engineering schematics and logic flow diagrams. All sub-element conductors are preplated and ready for soldering. Etched copper sub-elements are supplied on thin substrates which have a high strength pressure sensitive adhesive backing. Withstand soldering temperatures, adhere tightly, yet can be removed.

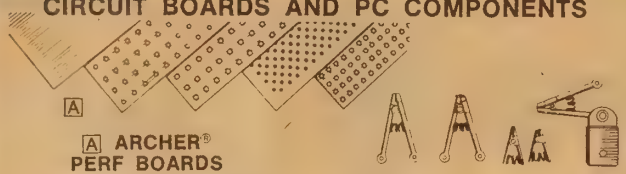


THE "1000" SERIES SUB-ELEMENTS ARE PRE-DRILLED ON .100-INCH GRID TO MATCH PRE-DRILLED BOARD MATERIAL— REQUIRES NO DRILLING AND NO TERMINALS

Stock No.	Mfr's Type	Fig.	Pcs. Per Pkg.	Sub-Element Description	Per Pkg. 1-9	Per Pkg. 10-Up
TO-5 & 10-18 SUB-ELEMENTS						
665-1000	C1001-010	A	10	TO-18 or TO-5 3 Lead	5.25	3.51
665-1080	C1025-010	G	10	TO-5 10 Lead	7.00	4.68
DUAL-IN-LINE PACKAGE SUB-ELEMENTS						
665-1120	C2101-010	K	10	Dual-In-Line 14 Lead	7.88	5.26
4 PADS						
665-1130	C1201-005	U	5	6 DIP's/Strip, 14/16 Lead, pwr. and gnd avail.	12.27	10.50
665-1150	C1205-005	W	5	Universal, 30 DIP's on 5 strips	12.27	10.50
3 PADS SHOWN						
665-1190	C1206-005	W	5	Universal, 30 DIP's on 5 strips	10.52	9.00
EPOXY-GLASS BOARD MATERIALS — PRE-SHAPED BOARDS *PRE-DRILLED HOLES ON .100 INCH GRID PATTERN*						
665-1530	C0007301	T	1	8½"x17"	12.79	10.95
CONNECTORS, .156" PIN SPACING						
665-1560	C7503	M	1	22 Pins	7.60	5.07
665-1570	C7504	M	1	44 Pins	9.63	6.43
PLUG-IN CONNECTOR STRIPS "HARD GOLD OVER NICKEL PLATE"						
665-1350	C1365-005	Z	5	22 Pin, .156" Spacing, Component Side	14.61	12.50
665-1360	C1366-005	Z	5	22 Pin, .156" Spacing, Circuit Side	14.61	12.50
665-1370	C2367-005	J	5	22 Pin, .156" Spacing, Component Side	11.11	9.50
665-1380	C2368-005	J	5	22 Pin, .156" Spacing, Circuit Side	11.11	9.50
DISCRETE COMPONENT STRIPS						
665-1390	C1302-005	AA	5	16 Discrete, Component Strip, mounts 80	13.13	8.77
665-1400	C1311-010	BB	10	Universal Strip, mounts 80 discretes	14.00	9.35
DISTRIBUTION STRIPS						
665-1440	C1325-010	GG	10	Single Row .100" hole spacing	8.75	5.85
665-1450	C1326-010	HH	10	Double Row .100" hole spacing	10.50	7.01
COPPER TAPE, DONUT PADS						
665-1460	23006211	P	1	.062" wide x 9 ft. long	3.50	2.33
665-1470	23010011	P	1	.100" wide x 9 ft. long	4.37	2.91
665-1480	23012511	P	1	.187" wide x 9 ft. long	4.37	2.91
665-1490	23025011	P	1	.250" wide x 9 ft. long	5.25	3.50
665-1500	C7201	R	250	.100" dia. pads	8.75	5.85
665-1510	C7202	R	250	.125" dia. pads	9.63	6.43

Circuit Boards, PC Components, Lettering

CIRCUIT BOARDS AND PC COMPONENTS



A ARCHER® PERF BOARDS

- **Accept Miniature Components**
- **1/16" Thick for Easy Mounting**
- **Punched Phenolic Boards or Solid Copper-Clad Board**

Ideal for modular construction. Phenolic and copper-clad boards for breadboards or printed circuits. 1/16" thick.

PATTERNS FOR PERF-BOARDS

Pattern	Grid Hole Centers	Hole Size Inch
A	.265x.265	3/32
B	.187x.187	1/16
C	.100x.200	1/16

PREPUNCHED PERF-BOARDS

Stock No.	Mfr's Type	Pattern	Size Inch	Each
910-6732	276-1682	A	3⅝x6⅞	.89
910-6710	278-1390	B	4½x5⅝	.89
910-6712	276-1392*	C	4½x5⅝	.93

*Alternate Grid

SOLID COPPER-CLAD

Stock No.	Mfr's Type	Size Inch	Each
910-6737	276-1587	6¾x9¾	1.79

SET OF 5 SINKS

Draws heat away from components while soldering. 2½" aluminum with magnet base; 1⅜" and 2½" straight and bent jaws. Shpg. wt. 4 lbs.
910-6703. Type 276-001 ..... 1.89



ARCHER® PRINTED CIRCUIT KIT HAS EVERYTHING YOU NEED

This kit contains everything you need to design and make printed circuit boards. Two printed circuit boards, resist ink pen, 6-oz. bottle of etchant. 2-oz. bottle of resist ink solvent, 1/16" drill bit. 7⅛x5⅛x2" plastic box. Ship. wt. 2 lbs.
910-6726. Type 276-1576.....6.95

DIRECT POSITIVE ETCHED CIRCUIT KIT



Type 32XA-1. Produces sharp, detailed etched circuits in 1 hour. Uses direct positive — no negative needed, no photography. Make duplicate boards from one master artwork easily. 1 oz. (28.35gm). Copper-clad laminate is coated with photosensitive positive-action etch resist Min. undercutting with closable plastic box, plastic etching bags. Includes 2 artwork transparencies, transfer art, 5 boards, plastic box, etchant, developer, glass plate, mylar, maskcutting film, tape, brush, ink, burnishing tool, grid paper. Wt. 1 lb. (.45k).

977-1178. 1-4 ..... Each 32.25
5-Up ..... Each 28.00

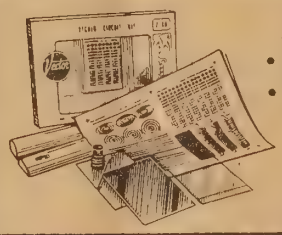
PRINTED CIRCUIT ETCHANT SOLUTION

16 FL. OZ.



- **Takes Copper Off Perfboard . . . Completely!**
- **Safe, Easy & Fast to Use**

A PC "must" for hobbyists, builders, experimenters! A special ferric chloride solution removes copper completely without damage to board material. Shpg. wt. 1½ lbs.
910-6715. Type 276-1535 .....Each 1.69



ETCHED CIRCUIT KIT

- **Easy to use rub-on transfer method**
- **Comes complete with instructions**

Type 27XA-1. "Vectoresist" rub-on transfer resist sheet with lines, dots and connector pattern. Replaces conventional tapes and liquid resists. Includes: one 4½"x6½" (114.3x165.1mm) 1-side copper-clad XXXP phenolic; one 4½"x3" board; 10"x15" (254x381mm) Vectoresist sheet, 2 bags of dry etchant, activator in etching bag; layout paper; instructions. Wt. 1¼ lbs., (.563k).
977-1162. 1-9 .... Each 12.58 10-Up ..... Each 8.38
Type R332 Vectoresist Sheet. Replacement 10×15" (254 ×381 mm) rub-on transfer resist sheet with assorted line widths, dots, circles and 44 contact. .156" (3.969 mm) spaced connector pattern. Wt. 2 oz. (56.7 gm).
977-0772.1-9 ..... Each 4.95 10-Up ..... Each 2.65

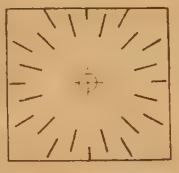
ELECTRONIC WORDS MARKIT®

ON JUMP IONIZA
IZATION JACKS J
PERS JUMPERS JUI
RDS KEYING KEYI
S KILOCYCLES KW
VATTS KILOWATTS
EAKAGE LEAK LEFT

An electronic glossary that lists over a thousand words from "AC" to "zooms" in alphabetical order. Easily applied to control panels, prototypes, drawings, terminal boards, electrical and mechanical components. Wt. 8 oz.

Stock No.	Mfr's Type	Description	Color	Size In	Size MM	EACH 1-4	EACH 5-Up
566R1080	EM-1	Electr.	Black	⅛	3.17	11.63	9.30
566-1081	EM-1W	Glossary	White	⅛	3.17	11.63	9.30

DIAL MARKING KIT



Contains dial patterns; arcs, wedges, lines, dots, switch symbols, graduation lines, lines for rotary tap switches, potentiometers and calibrated meter dials. Ship. wt. 8 oz.

Stock No.	Mfr's Type	Description	EACH 1-4	EACH 5-Up
566R1060	DM-1	Dial Patterns	11.63	9.30

TERMINAL AND CHASSIS MARKIT®

99 100 101 102
03 04 05 06
2 3 3 4 4 5 5
A L P M R

Book contains numbers (thru 200, 1 thru 0 and 01 thru 09) plus complete alphabets. Has 13 black pages and 12 white pages. All numbers ⅛" high (3.17mm). Application in prototype, production. Wt. 8 oz.

Stock No.	Mfr's Type	Description	Size In	Size MM	EACH 1-4	EACH 5-Up
566-5012	TC-1	Markit	⅛	3.17	11.63	9.30

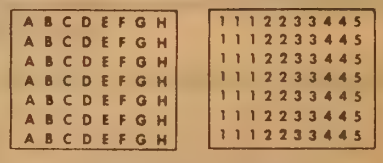


PRINTED CIRCUIT PADS MARKIT®

Type PC-1 (Black). Thousands of printed circuit pads: circles (with center hole), teardrops, teardrops (with vanishing point), double end teardrops, double end teardrops (with vanishing points), elbows, elbows (terminal), T-connectors, fillets, ovals. Quick and easy to apply. Wt. 3½-oz.
566-1362. 1-4 Ea. 11.63 5-Up Ea. 9.30

FOUR-STEP METHOD— SIMPLE AND QUICK

1. **After folding away the backing sheet, position the letter, number or symbol exactly where you want it.**
2. **Burnish lightly with a pen or pencil.**
3. **Peel away the carrier sheet.**
4. **Burnish with backing sheet.**



COMPLETE ALPHABET AND NUMBER MARKIT®

Each MarKit has 27 3×6" looseleaf pages bound by a plastic spiral ring. Special waxfree adhesive assures permanence. Letters or numbers in Black or White, in three sizes: ⅛", ¼", ⅜". For a multitude of uses in electronics: chassis, prototypes, production. Wt. 3½ oz

NUMERALS

Stock No.	Mfr's Type	Color	Size In	Size MM	EACH 1-4	EACH 5-Up
566R1110	NM-1	Black	⅛	3.17	11.63	9.30
566R1111	NM-1W	White	⅛	3.17	11.63	9.30
566R1115	NM-2	Black	¼	6.35	11.63	9.30
566-1116	NM-2W	White	¼	6.35	11.63	9.30
566-1120	NM-3	Black	⅜	9.52	11.63	9.30

ALPHABET

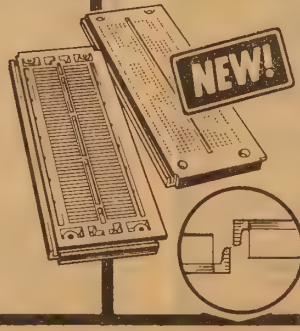
Stock No.	Mfr's Type	Color	Size In	Size MM	EACH 1-4	EACH 5-Up
566R1010	AM-1	Black	⅛	3.17	11.63	9.30
566R1011	AM-1W	White	⅛	3.17	11.63	9.30
566R1015	AM-2	Black	¼	6.35	11.63	9.30
566-1016	AM-2W	White	¼	6.35	11.63	9.30
566-1020	AM-3	Black	⅜	9.52	11.63	9.30

RESIST MARKING PEN



- **Fast Drying Black Ink**
- **Fine Point Marks Easily**

Type 276-1530. The fine point of this pen allows you to do delicate drawings and design your own printed circuit patterns directly on copper-clad boards. The fast drying black ink of this pen will not smear, leaving your work neat and readable. Marks easily, gives an even flow of ink which means no need to trace over drawings or designs to make them clear. Has handy pocket clip. Shpg. wt. 2 oz.
910-6717 ..... Each 1.19



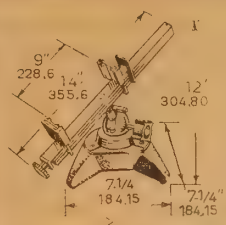
EXPERIMENTOR™ SOCKETS

Featuring the Domino Theory of Breadboarding. Snap the sockets together vertically or horizontally with .3" centers. When your breadboard becomes overcrowded, just snap on another, either vertically or horizontally. Just like dominoes, you keep going and going in any direction, until your idea is complete. Type 276-174 has .3" center for smaller DIPs. Each 6"x2"x⅜" (15.2x5x.9cm) board has 47 horizontal dual rows of five interconnected terminals. Plus, a 40 point bus strip along each edge. Type 276-175 has two rows of 46 five-point terminals, plus two 20-point bus strips. .3" centers. ⅜"x3½"x2¼" (.9x8.8x5.7cm).
910-6707. 276-174 ..... **Each 9.95**
910-6708. 276-175 ..... **Each 5.95**

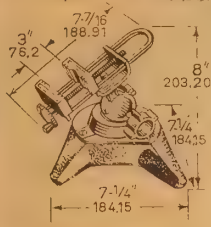
See Page 2 for the Allied Electronics Facility Nearest You

PC Board Holders, Vises and Accessories

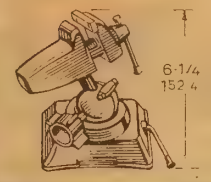
PC VISES



TYPE 66028 QUICK-ADJUST VISE. Instantly adjusts from 9" (228.6mm) opening to smaller center opening. Non-slip neoprene jaws. Consists of chrome-plated steel vise, spring-loaded positioner, 5 lb (2.27kg) cast iron base. Wt. 10 lbs. (4.54kg)
809-4491. 1-4 ..... **Each 57.95**
5-Up ..... **Each 52.68**



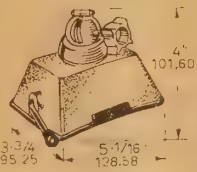
TYPE 66040 WIDE-OPENING VERTICAL VISE. 6" (152.4mm) with Pana Positioner holds 15 lbs. (6.81kg) with cast iron base, 50 lbs (22.7kg) when bolted to bench. Spring-loaded positioner adjusts to any position; relocates to another without readjustment. Crank handle. Chrome-plated heavy gauge steel wire. Replaceable jaws. Rubber feet. Wt. 10 lbs. (4.54kg)
809-4497. 1-4 ..... **Each 41.33**
5-Up ..... **Each 34.75**



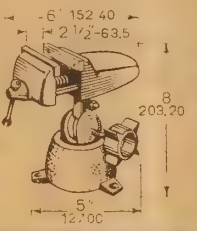
TYPE 66010 PANA-VISE ON VACUUM BASE. Holds to any nonporous surface. Pivots work 360° in any tangent to half a sphere any compound angle. Replaceable jaws. Shpg. wt. 4 lbs. (1.81kg).
809-4464. 1-4 ..... **Each 33.40**
5-Up ..... **Each 27.95**



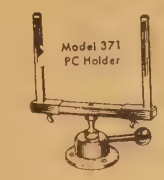
TYPE 65002 SPRING-LOADED HAND IC INSERTION TOOL. Picks D.I.P.'s out of package, automatically squeezes them to fit hole pattern, ejects them when firmly placed on board. Lightweight and comfortable. Wt 1/2 lb. (.227kg)
809-4425. 1-4 ..... **Each 8.23**
5-Up ..... **Each 5.96**



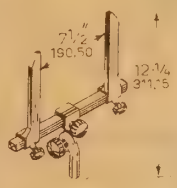
TYPE 66008 VACUUM BASE WITH PANA POSITIONER. Attaches and removes with flip of a lever. Cast aluminum base, neoprene holding pad. Mounted positioner holds fixtures with 5/8" (15.87mm) shaft. Shpg. wt. 2½ lbs. (1.13kg)
809-4461. 1-4 ..... **Each 20.06**
5-Up ..... **Each 18.90**



TYPE 66002 PANA-VISE WITH VERTICAL HEAD. Pivots work 360° in any tangent to half a sphere; achieves any compound angle. Base holds 5/8" (15.87mm) stem. Replaceable jaws. Shpg. wt. 3½ lbs. (1.58kg)
809-4451. 1-4 ..... **Each 24.58**
5-Up ..... **Each 22.80**



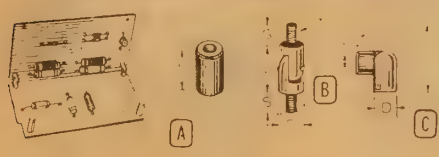
TYPE 371 PRINTED CIRCUIT BOARD HOLDER. Holder mounts on Midget Pow-Ram™ No. 345 which is included. Brackets adjust horizontally 3" (76.2mm) to 6" (152.4mm). V-grooved vertical posts measure 1/8" (3.17mm) wide, 3/16" (4.76mm) deep. Shipping wt 2 lbs. (.908kg)
988-7371 ..... **Each 26.45**



TYPE 66054 DELUXE 7" PC BOARDHOLDER. Holds any shape board. Allows surface to rotate 360°. Features a spring tension arm. May be used with Pana Positioner or Vacuum Base with Pana Positioner. Shipping wt. 1¼ lbs (.567kg).
809-4498. 1-4 ..... **Each 20.25**
5-Up ..... **Each 18.90**

TYPE 66004 PANA POSITIONER. Positioner pivots a full 360°. A single lock holds 5/8" (15.87mm) fixture. Measures 5" (127mm) wide x 4" (101.6mm) high. Shipping wt. 2 lbs (.908kg). ***(not illustrated.)***
809-4457. 1-4 ..... **Each 14.86**
5-Up ..... **Each 11.95**

HINGED TERMINAL BOARD STANDOFFS



Hinged standoffs have unlimited applications. Interconnect circuits or services without danger of shorting. Standoffs mount at front of board. Made of Brass per **MIL Spec QQ-B-626A** Comp. 22-½ hard. Cadmium Plate finish per **QQ-P-416** Class 2, Type 2 and gold Iridite. 90° swivel. *5/8" long below hinge, 3/8" above. †Male stud length. Av. shpg. wt. 2½ oz. **Sold in packages of 10 only.**

A STANDOFFS FOR FRONT OF BOARDS

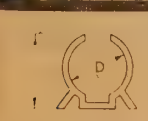
Stock No.	Mfr's Type	Use with Hinge No.	Lgth. In.	PER PKG. OF 10 1-9	10-24	25-Up
839-3421	1657A	351	¾	1.83	1.10	.91
839-3422	1657B	352	1	2.13	1.32	1.10

B MALE HINGED STANDOFFS

Stock No.	Mfr's Type	Thd.	Dia. In.	L. In.	S-Thd. Depth In.	PER PKG. OF 10 1-9	10-24	25-Up
839-3321	357	4-40	.187	½	¼†	4.75	3.00	2.66
839-3322	358	6-32	.250	½	5/16†	5.00	3.10	2.80

C FEMALE HINGED STANDOFFS

Stock No.	Mfr's Type	Thd.	Dia. In.	L. In.	S-Thd. Depth In.	PER PKG. OF 10 1-9	10-24	25-Up
839-3315	351	4-40	.187	¾	.172	5.00	3.00	2.80
839-3316	352	4-40	.187	1	.250	5.50	3.30	3.08
839-3317	353	6-32	.250	¾	.172	5.25	3.20	2.94
839-3318	354	6-32	.250	1*	.250	5.75	3.40	3.22

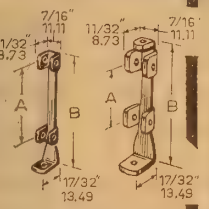


PC COMPONENT CLIPS

Mtg. holes: V1002 to V1004, 3/32"; V1008, 5/32"; V1010 & V1011, two 5/32". ½" long except V1010 & V1011, 1⅛" *Dia. of part held. **Per Pkg. of 100.**

Stock No.	Mfr's Type	Dia.* Inches	Per Pkg. of 100 1-9	10-24	25-49	50-Up
911-5002	V-1002	3/8	11.80	10.00	8.43	7.87
911-5004	V-1004	½	12.31	10.45	8.80	8.20
911-5008	V-1008	¾	14.62	12.42	10.45	9.75
911-5010	V-1010	1	17.56	14.92	12.55	11.71
911-5011	V-1011	1⅜	19.90	16.90	14.22	13.27

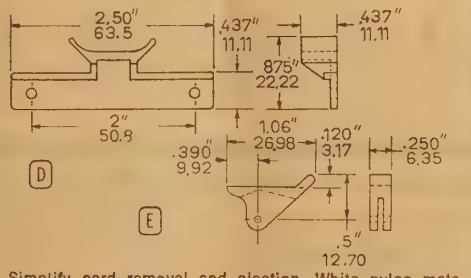
CIRCUIT BOARD MOUNTING BRACKETS



Provides rigid support under shock or vibration. Mounts single or double panels. Meets **MIL-STD-202** and **MIL S-901** (Ships) specifications. *Distance between ctrs. of holes in panel supports. Formed from cold-rolled carbon steel. Av. shpg. wt. 4 oz.

Stock No.	Mfr's Type	B Ht. In.	A Support Centers* Inches	EACH 1-99	100-499	500-up
904-0510	MB-125	2 1/16	1	.73	.40	.34
904-0511	MB-126	2 5/16	1½	.73	.40	.34
904-0512	MB-127	3 1/16	2	.75	.43	.36
904-0513	MB-128	3 5/16	2½	.78	.67	.39

PC CARD PULLERS AND EJECTORS



Simplify card removal and ejection. White nylon material, ready to mount.

Stock No.	Figure	Type	Color	EACH 1-9	10-24	25-Up
957-4003	D	5005-09N	White	.30	.27	.23
957-4004	E	5005-20N	White	.24	.21	.18

Figure E is Ejector—hardware supplied.
Figure D is Standard Puller.

STANDARD AND BOWED CARD GUIDES



Black nylon. Series 8828 (Bowed) for .090" thick boards. Series 8827 (Stand.) for .062" thick boards.

Stock No.	Mfr's Type	Length	For Bd.	EACH 1-9	10-24	25-99	100-Up
957-4105	8827-2	2"	.062"	.33	.30	.25	.18
957-4106	8827-3	3.5"	.062"	.35	.31	.27	.20
957-4107	8827-5	5"	.062"	.38	.33	.29	.22
957-4108	8828-3	3.5"	.090"	.70	.61	.52	.41

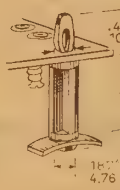
CERAMIC STAND-OFF INSULATORS



Threaded at both ends to accept 6-32 or ¼-20 machine screws except Type 2640 which is threaded throughout. 3 oz. **Per Pkg. of 100.**

Stock No.	Mfr's Type	Dimen. In. A	B	C	Thd.	Pkg. of 100 1-3	4-6	7-Up
920-2640	2640	¼	¼	Thru	6-32	27.00	22.36	19.68
920-2641	2641	½	¼	5/32	6-32	28.00	22.90	20.16
920-2642	2642	3/8	3/8	5/32	6-32	29.00	23.72	20.88
920-2643	2643	½	3/8	9/16	6-32	30.00	24.54	21.60
920-2644	2644	½	½	9/64	6-32	31.00	25.36	22.32
920-2645	2645	¾	½	¼	6-32	33.00	27.00	23.76
920-2646	2646	1	½	3/8	6-32	35.00	28.63	25.20
920-2647	2647	1½	½	9/16	6-32	41.00	33.54	29.52
920-2649	2649	2½	¾	¾	¼-20	140.00	114.54	100.80

CIRCUIT BOARD SUPPORTS



Board supports are easily installed by hand. Assembled boards are readily mounted, lock in place and are easily removed for replacement or repair. Made from strong, tough nylon. Positive spring locking action, yet are easily removed. Snap into .187" hole in chassis .030-.093" thick. Av. shpg. wt. 4 oz. **Sold in packages of 100.**

Stock No.	Mfr's Type	Height In.	(mm)	PER PKG. OF 100 1-9	10-24	25-49	50-Up
920-0503	4093	3/16	4.76	4.05	3.00	2.31	2.16
920-0504	4094	¼	6.35	4.18	3.10	2.39	2.23
920-0506	4095	3/8	9.52	4.45	3.30	2.54	2.37
920-0508	4096	½	12.7	4.72	3.50	2.70	2.52
920-0510	4097	5/8	15.8	5.06	3.75	2.89	2.70
920-0512	4098	¾	19.0	5.40	4.00	3.08	2.88
920-0514	4099	⅞	22.2	6.07	4.50	3.47	3.24

HEX PVC SPACER STAND-OFFS



Polyvinyl dichloride with high dielectric, excellent insulation and mechanical strength. Self-extinguishing; low moisture absorption; resistant to chemicals, easy to apply. For use with self-tapping screw. ‡ size 4 and * size 6. 5 oz **Pkg. of 100 only.**

Stock No.	Mfr's Type	Length In.	(mm)	Hex In.	(mm)	PER PKG. OF 100 1-9	10-24	25-49	50-Up
920-0674	4179‡	½	12.7	.187	4.76	5.40	4.00	3.09	2.88
920-0678	4190‡	1	25.4	.187	4.76	7.42	5.50	4.25	3.96
920-0684	4180*	½	12.7	.250	6.35	5.40	4.00	3.09	2.88
920-0688	4191*	1	25.4	.250	6.35	7.42	5.50	4.25	3.96

Synthetic Greases / Lubricants & Adhesives / Sealants

SYNTHETIC ENGINEERED LUBRICANTS AND GREASES FOR A VARIETY OF APPLICATIONS

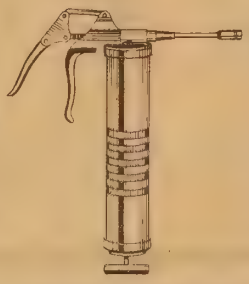




Cartridge



Pail



SG-600
DRY FILM
LUBRICANT

SG-100 EXTREME-PRESSURE MULTI-PURPOSE GREASE
Type SG-100 is suitable for use in a variety of industrial, agricultural and commercial applications. It is pumpable at temperatures below freezing and has a dropping point well above 800°F. Its tacky nature provides greater metal adhesion with concurrent protection from corrosive environments. SG-100's stability will not let it melt out, pound out, thin out or wash out when exposed to water. This grease can really handle the tough jobs because it's been fortified with an extreme pressure package as well as rust and oxidation additives. Supplied in NLGI Grade #2. Flash Point (Coc): 450°F. Channeling Point: –25°F.

573-0100. SG-100. 14½-oz. Cartridge. **1-9** ..... **Each 1.67**
10-Up ..... **Each 1.35**
573Q0110. SG-101. 45-lb. Pail. **1-5** .. **Ea. 51.66** **6-Up** .. **Ea. 44.95**

SG200 GENERAL PURPOSE GREASE
Type SG-200 provides superior lubrication where mating surfaces are not enclosed by a housing or gear box. Typical uses: open gears, sliding forms, fifth wheels, plug valves, telescoping booms, couplings and cable or wire rope dressing. Provides a high degree of adhesion and extreme pressure capability. Also, it contains an organic moly, a special anti-rust inhibitor, and a cushioning package which allows it to maintain a highly durable protective coating between the mating surfaces thereby reducing wear or fretting which could otherwise occur. Has a high shock load protection. SG-200 is excellent for preventing rust and damage on surfaces due to long term effects of outside storage. Dropping Point: 700°F. Corrosion Test: Passes copper strip test. Texture: tacky. Fire Point: 535°F. Freeze Point: –20°F.

573-0200. SG-200. 14½-oz. Cartridge. **1-9** ..... **Each 2.07**
10-Up ..... **Each 1.48**
573Q0210. SG-201. 45-lb. Pail. **1-5** .. **Ea. 60.50** **6-Up Ea. 52.65**

SG-300 LAND AND SEA SPECIAL RUST-INHIBITED GREASE
Type SG-300 is highly resistant to acids, corrosion and microbiological degradation. Developed to provide corrosion protection over a wide temperature range. Combines the outstanding temperature stability of a synthetic grease with that of special anti-rust and extreme-pressure additives to provide extraordinary versatility and performance under adverse environmental conditions. Applications include: boats; marinas; conveyor systems located near salt water, construction/commercial equipment exposed to road salt or salt water; farm/construction/industrial equipment stored outdoors. Viscosity index: 108. Pour Point: –44°F. Dropping Point: Over 650°F.

573-0300. SG-300. 14-oz. Cartridge. **1-9** ..... **Each 4.27**
10-Up ..... **Each 2.99**
573Q0310. SG-301. 45-lb. Pail. **1-5 Each 106.65** **6-Up Ea. 96.00**

SG400 EXTREME PRESSURE MOLY GREASE
Type SG-400 contains an organic molybdenum, light yellow in color and far superior to conventional moly in both anti-wear and anti-oxident properties. Incorporates graphite and a special adhesion additive to give extra protection where higher shock loading or other unusual conditions exist. Seals out contaminates – results in longer equipment life. Dropping Point: Over 800°F. Pour Point: –20°F. Rust: ASTM 1748-60T: Pass. Use wherever you have very severe loading and extreme pressure applications, and desire or require the unique characteristics of moly.

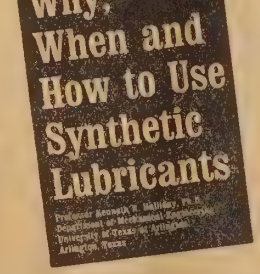
573-0400. SG-400. 14½-oz. Cartridge. **1-9** ..... **Each 1.85**
10-Up ..... **Each 1.49**
573Q0410. SG-401. 45-lb. Pail. **1-5 Ea. 58.60** **6-Up Ea. 52.65**

SG-500 ULTRA-HIGH-TEMPERATURE GREASE
Type SG-500 provides positive lubrication at ultra-high temperatures and ultra-high pressures 75,000 to 100,000 PSI. For high temperature areas, oven conveyor belt bearings, kiln car wheels. Combines a special-blend base fluid with inorganic, synthetic and organic ingredients. API Gravity at 60°F: 27. Flash (Coc): 570°F. Fire (Coc): 640°F. Dropping Point: Over 800°F. Lubricating Residual at 1200°F: 13%.

573-0500. SG-500. 14½-oz. Cartridge. **1-9** ..... **Each 2.27**
10-Up ..... **Each 1.82**
573Q0510. SG-501. 45-lb. Pail. **1-5 Ea. 81.00** **6-Up Ea. 73.00**

GREASES/LUBRICANTS

APPLICATION		SG-100	SG-200	SG-300	SG-400	SG-500	SG-600
Bearings: Ball, Roller, Sleeve	Most Applications to 600°F	●					
	High Temp-Moderate Loads					●	
	Harsh/Corrosive Environment			●			
	Extremely Severe Loading		●		●		
Cables and Wire Rope			●	●			
Chains: Dirty/Dusty Environment							●
Chassis and Heavy Equipment:	Most Applications	●	●				
	Low Temp			●			
	Harsh/Corrosive Environment			●			
Couplings			●				
Kilns, Kiln Car Wheel Bearings						●	
Machine Shops: Lead Screws, Guides, Ways			●				
Marine: Normal, Low Temp, Anti-Corrosion				●			
Open Gears			●				●
Ovens: Tinter Frame, Paint, Ceramic						●	
Sliding Forms, Splines, Threaded Connections		●				●	



WHY, WHEN AND HOW TO USE SYNTHETIC LUBRICANTS

This book is of special interest to anyone who deals with the day-to-day operation of equipment that requires periodic lubrication. Some subjects covered are: Wear (metal-to-metal contact); Lubrication (because surfaces have microscopic ridges and depressions); Viscosity (temperature and load effects); Chemical Activity (changes, toxicity, handling problems, useful life); Additive Packages (formulations for specific applications); Synthetics (basic ingredients, properties, how they differ, building block process, economics, lubricity, longer lubrication intervals and extended equipment life, how they benefit five major market areas, Marine, Agriculture, Manufacturing, Transportation and Construction). 100 pages. Paperback.
573-1000. SB-025. **1-49** ..... **Ea. 4.95** **50-Up** ..... **Ea. 3.95**

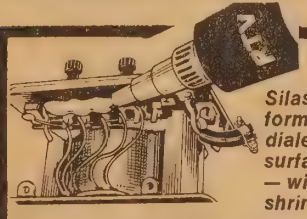
SG-600 DRY FILM LUBRICANT

Type SG-600 is an excellent choice for a dry film lubricant, leaves no oily film and will not run or drip. It's a combination of graphite, moly disulfide, and other ingredients suspended in an aerosol carrier. SG-600 chemically attaches itself to metals while concurrently repelling dirt and other foreign particles and contaminates. Recommended for chains, sprockets, certain open gears, lathe beds, and lathe rails. Color: gray-black film. Coefficient of Friction: 0.043-0.054. Service Temperature: –300° 1000°F. 16-oz. (453.59gm) container.

573-0600. SG-600 **1-11** ..... **Each 6.07**
12-Up ..... **Each 4.86**

GG610 GREASE GUN

Holds 14½ ounce (411.06gm) tube for easy use.
573-0610. Type GG610 ..... **Each 11.00**



RTV SILICONE-RUBBER ADHESIVES/SEALANTS

Silastic® RTV adhesive/sealants air cure to form a flexible silicone rubber with excellent dielectric properties. Adhere well to almost any surface — not affected by weather or aging — withstand temperature extremes —will not shrink, crack, or crumble.

SILASTIC® 732 RTV ADHESIVE/SEALANT. ***Replaces RTV102.***
Protects and insulates electrical equipment and installations. Use it to repair insulation, protect coax cable connectors, seal electrical connectors, control boxes outlet and junctions. –65°F to 450°F temp. range. UL Recognized in thicknesses of 75 mils min. for temperatures not exceeding 140°C (285°F). Meets requirements of USFDA Reg. 121.2562 for rubber articles intended for repeated use in contact with food; approved by USDA for use in sealing in and around meat-handling equipment. Widely used in heating, air conditioning and refrigeration for sealing and repairing. White. Air cure.

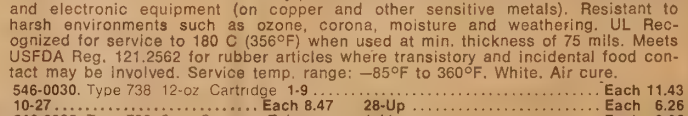
546-0010. Type 732. 12-oz. Cartridge. **1-9** ..... **Each 6.27**
10-27 ..... **Each 3.58** **28-Up** ..... **Each 3.30**
546-0015. Type 732. 3-oz. Squeeze Tube. **1-11** ..... **Each 3.05**
12-95 ..... **Each 1.95** **96-Up** ..... **Each 1.40**

SILASTIC® 734 RTV ADHESIVE/SEALANT. ***Replaces RTV112.***
Free-flowing, self-leveling – ideal for potting, coating, sealing, formed in-place gaskets. Stays flexible from –85°F to 500°F. Adheres to most metals, glass, wood, ceramics, many plastics. Dip, brush or spray application. White. Air cure.

546-0020. Type 734. 12-oz. Cartridge. **1-9** ..... **Each 12.50**
10-27 ..... **Each 10.00** **28-Up** ..... **Each 8.82**
546-0025. Type 734. 3-oz. Squeeze Tube. **1-11** ..... **Each 7.52**
12-95 ..... **Each 5.08** **96-Up** ..... **Each 3.46**

SILASTIC® 738 RTV ADHESIVE/SEALANT.
Features non-corrosive cure mechanism which produces no exothermic heat and no acetic acid or other corrosive by-products. Ideal for corrosion-sensitive electrical and electronic equipment (on copper and other sensitive metals). Resistant to harsh environments such as ozone, corona, moisture and weathering. UL Recognized for service to 180 C (356°F) when used at min. thickness of 75 mils. Meets USFDA Reg. 121.2562 for rubber articles where transistory and incidental food contact may be involved. Service temp. range: –85°F to 360°F. White. Air cure.

546-0030. Type 738 12-oz Cartridge **1-9** ..... **Each 11.43**
10-27 ..... **Each 8.47** **28-Up** ..... **Each 6.26**
546-0035. Type 738. 3-oz. Squeeze Tube. **1-11** ..... **Each 6.05**
12-94 ..... **Each 3.66** **95-Up** ..... **Each 3.02**



SYLGARD 182 RESIN

Sylgard 182 resin is a clear, heat-curing embedding and potting compound for modules, relays, power supplies and similar devices. Can also be used as a dip coating for components and circuit boards (–65° to 200°C). Pot life at 25°C: 8 hrs. Dielectric strength, volts/mil: 550. Dielectric constant, 100 Hz, 100 kHz: 2.70. Dissipation factor, 100 Hz, 100 kHz: 0.001. Viscosity at 25°C, poises (mixed): 30.
546-0040. 1-pound kit ..... **Each 24.97**

Chemicals and Service Aids

MIRACLE ADHESIVES, CEMENTS AND GLUES



MIRACLE ADHESIVES. Won't shrink or expand through curling. Resist acid, alkali, grease, gas, water, solvents, fungus, temperature change. Possesses excellent dialectric properties. Simple, fast application. Cures to a high strength solid. Suitable for a variety of applications in commercial, military or hobby. Strong enough for industry, simple enough for home.

Type 347 Epoxy Glue. Specified by N.A.S.A. for use in its space program. Super grip, fast set. A drop holds tons. 2 oz. (57 gms.) tubes of resin and hardener.
796-2098 ..... **Per Package 6.25**

Permabond. Up to two tons holding power in seconds. Ready to use — no mixing, no clamping, no mess.
796-2010. Type 10-120. .105 oz. (3 gms). tube ..... **Each 3.00**
796-2012. Type 10-122. ⅓ oz. (9.4 gms.) ..... **Each 6.57**
796-2013. Type 10-123. 1 oz. (28 gms.) ..... **Each 12.46**

CEMENTS AND GLUES. Type 45-2 General Purpose Cement. For bonding porous or semiporous materials. Fast drying, waterproof. 2 oz. (57 gms.).
796-2065 ..... **Each 1.40**

Type 40-2 Acrylic Cement. Specially formulated to mend acrylic materials such as lucite and plexiglass. Forms an inseparable, usually invisible joint. 2 oz. (57 gms). bottle.
796-2060 ..... **Each 1.25**

Type 10-324 Plastic Cement. Perfect for all plastics: acetates, butyrates, vinyls, phenolics. 2 oz. (57 gms.).
796-3630 ..... **Each 1.40**

Type 43-2 Plybond Cement. Tough and resilient. Bonds almost any surface. 2 oz. (57 gms.).
796-3640 ..... **Each 1.93**

Type 10-302 Radio TV Service Cement. Formulated for radio-TV speaker and general shop use. 2 oz. (57 gms.).
796-3625 ..... **Each 1.40**

Type 34-2S All-Purpose Electronic Cement. Use indoors or outdoors. 2 oz. (57 gms.).
796-2055 ..... **Each 1.40**

CLEANERS AND LUBRICANTS



CLEANERS. Type 8666 Spra Kleen. Eliminates noise due to dust, dirt, corrosion. Cleans, lubricates parts quickly. 6 oz. (170 gms.) aerosol.
796R8666 ..... **Each 1.95**
796-8676. Type 8666-16. 16 oz. (450 gms.) ..... **Each 3.45**

Type 8670-6 Jif. Siliconized contact-control cleaner. Lubricates and provides longest protection possible. Contains no solvents. 6 oz. (160 gms.).
796R8670 ..... **Each 2.68**

Type 8669 Dry-Kleen. Cleans contacts, relays and other devices. Leaves no deposits. Excellent degreaser. 16 oz. (450 gms.) aerosol.
796-8669 ..... **Each 3.43**

Type 8682 Relay-Kleen. Cleans relays, contacts and other electronic devices. Excellent degreaser, general solvent for gummy deposits on all electrical gear. 6 oz. (170 gms.) aerosol.
796-8682 ..... **Each 2.80**
796R8683. Type 8682-16. 16 oz. (450 gms.) aerosol ..... **Each 5.18**

Type 213-16 Chloro-Kleen. Powerful solvent for all purpose cleaning. 16 oz. (450 gms.) bottle.
796-3680 ..... **Each 3.95**

Type 9082 Glass & Plastic Cleaner. Wipes dust, dirt from glass, plastic. 14 oz. (396 gms.) aerosol.
796-9082 ..... **Each 1.98**

Type 10-620 Audio-Video Tape Head Cleaner. Safe for all types of heads. 16 oz. (450 gms.) aerosol.
796-3600 ..... **Each 4.02**

Type 53-2 Mag-Netic Head Cleaner. Removes oxide/dirt from recorders. 2 oz. (57 gms.) bottle.
796-3650 ..... **Each 2.10**

Type 26-2 Strip-X. For removal of wire insulation coatings. 2 oz. (57 gms.) bottle.
796-3620 ..... **Each 1.72**

LUBRICANTS. Type 9400 Electronic Oils. Highly refined lubricant in dispenser vials. The right oil for any need. Assortment of 6.
796-9400 ..... **Per Package 8.85**

Type 10-600 Sili-Spra. High quality silicone lubricant. No residue build-up. 6 oz. (170 gms.) aerosol.
796-3599 ..... **Each 2.50**

Type 10-700 Formula 70. Formulated to penetrate rust and "free" frozen parts. Hundreds of applications. 16 oz. (450 gms.) aerosol.
796-3605 ..... **Each 2.85**

Type 23-2S Lubriplate. Grease type super lubricant reduces friction loss, prevents rust and corrosion. 1¾ oz. (50 gms.) tube.
796-2040 ..... **Each 2.25**

PRINTED CIRCUIT SOLDERING CHEMICALS AND CIRCUIT COOLERS

PRINTED CIRCUIT SOLDERING CHEMICALS. Type 21-1 Silver Print. Draw or repair printed circuits. Made of pure silver. Air drying. ½ troy oz. bottle.
796-2035 ..... **Each 12.50**

Type 20-2 Copper Print. For PC touch-up work. 2 oz. (57 gms.) bottle.
796-2030 ..... **Each 3.32**

Type 22-270 Solder Flux Remover and Cleaner. Convenient, fast and easy to use. Removes all types of organic flux. Use within one hour of soldering. Simply spray and wash from top to bottom. 16 AVDP oz. (453.5 gms.) aerosol.
796-2037 ..... **Each 5.37**

Type 1207 Soldering Paste. Fast acting fluxing base for PC work. Non-corrosive. 1½ oz. (42 gms.) can.
796-1207 ..... **Each 1.40**

Type 8101-S Transistor Silicon Compound. For efficient transistor heat transfer to chassis. 1 oz. (28 gms.) tube.
796R8101 ..... **Each 5.35**

Type 8109-S Silicone Heat Sink Compound. Lowers overall temperature level of electronic devices. 1 oz. (28 gms.) tube.
796-8109 ..... **Each 4.75**

CIRCUIT COOLERS. Type 10-702 Extra Dry Super Freeze Mist. Cools circuits 3 times faster. Locates bad capacitors, transistors and oxidized joints by instantly cooling components. Non-toxic, odor-free, leaves no residue. 15 oz. (425 gms.) aerosol.
796-3610 ..... **Each 3.73**

Type 8667 Zero-Mist Circuit Cooler. Locates "intermittence" in electronic equipment caused by over-heating of components. Cools components instantly pinpointing faulty capacitors, transistors, oxidized joints. 16 oz. (450 gms.) aerosol.
796R8667 ..... **Each 3.73**

Type 8668 Super Freeze Mist. Cools circuits instantly. Pinpoints bad capacitors, transistors, oxidized joints. Non-toxic, non-flammable. Leaves no liquid residue. 6 oz. (170 gms.) aerosol.
796R8668 ..... **Each 1.95**

INSULATING CHEMICALS, PAINTS AND FINISHES



INSULATING CHEMICALS. Type 50-2 Red-X Corona Dope. Silicone base, red enamel compound. 2 oz. (57 gms.) bottle.
796-2068 ..... **Each 1.75**
796-3645. Type 50-12. 16 oz. (450 gms.) ..... **Each 4.45**

Type 90-2 Red GLPT Insulating Varnish. Alkyd base. Heat resistant. 2 oz. (57 gms.) bottle.
796-3670 ..... **Each 1.85**

Type 8665 Koloid-Clear Acrylic Plastic. Acrylic, ester resin base. 15 oz. (422 gms.) aerosol.
796-8665 ..... **Each 4.67**

PAINTS AND FINISHES. Type 60-12 and -13 Wrinkle Varnish. Easy to use, professional looking air dry wrinkle varnish for use on test equipment, racks and chassis, panels, more. 13 oz. (365 gms.) aerosol cans.
796-2085. Black ..... **Each 6.25**
796-2086. Gray ..... **Each 6.60**

Type 66-6 Dial Lite Coloring Kit. Instant drying, long lasting lacquer for coloring dial and signal lights. Colors: red, green, blue, amber, purple. Includes solvent.
796-2095 ..... **Each 6.25**

Type 46-975 Plastic Repair Kit. Contains everything necessary to repair plastic objects. Can be molded.
796-2075 ..... **Each 5.42**

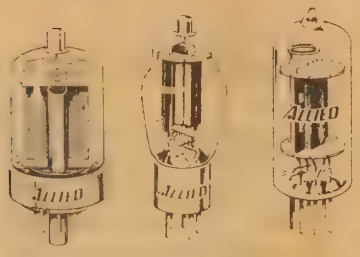
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Receiving Tubes

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RECEIVING TUBES



- **More Than 100 Types of High-Quality Receiving Tubes**
- **New Tube Types Placed in Stock When Introduced**
- **Tubes Can Be Furnished in Production Quantities**
- **Orders Are Billed at Current OEM Prices**
- **Allied Receiving Tubes Guaranteed for Two Full Years**

With the increasing demands on modern communication technology, the need for a line of dependable receiving tubes is important. Allied can satisfy this demand by providing a selection of receiving tubes designed to provide dependable, high-level performance. Full two-year guarantee on Allied tubes only *(Stock Number Prefix 610).* Allied will replace any tube that does not provide efficient performance for 24 months from date of purchase. (Does not apply to broken tubes.) New tube types can be placed in stock as they are released from the manufacturer. Tubes can be furnished in production quantities and are billed current OEM prices—contact your nearest Allied facility.

Stock No.	Tube Type	List Price
899-0002	0Z4A	6.80
610-0007	1G3GT/1B3GT	6.35
899-0021	1U5	7.45
702-0022	1V2	4.00
899-0026	2AH2/2BU2	6.35
702-0200	2AV2	5.05
702-0041	3A3C	6.45
702-0300	3AT2A	6.30
702-0057	3BU8/3GS8	7.50
899-0037	3BZ6	5.75
702-0305	3CU3A	7.85
702-0310	3DB3/3CY3	7.05
702-0315	3DJ3	6.80
702-0320	3GK5	6.20
702-0325	3HA5/3HM5	6.15
702-0400	4EJ7	6.00
899-0041	5AQ5	5.75
899-0135	5AR4	8.40
899-0042	5CG8	6.55
702-0500	5GH8A	7.55
702-0505	5GS7	7.00
702-0510	5LJ8	7.05
702-0063	5U4GB	5.35
899-0186	5V4GA	6.65
702R0025	5Y3GT	5.30
899-0192	5Z3	14.20
899-0187	6AB4	5.80
899-0197	6AC7	12.90
899-0207	6AG7	15.10
702-0027	6AH6	10.55
899-0188	6AK5/EF95	7.60
702R0031	6AL5	5.20
702-0033	6AN8A	7.30
610-0178	6AQ5A	5.45
899-0223	6AQ6	5.80
899-0225	6AQ8/ECC85	5.80
899-0235	6AU5GT	9.15
610-0193	6AU6A	5.20
899-0053	6AU8A	8.10
899-0238	6AV5GA	8.30
899-0054	6AV6	4.45
610-0202	6AW8A	7.15
899-0057	6AX4GTB	5.75
899-0243	6AX5GT	7.20
610-0214	6BA6/EF93	5.35
899-0059	6BE6	5.90
899-0269	6BH6	6.05
899-0273	6BJ6	6.30
610-0244	6BK4C/6EL4A	11.95
899-0191	6BK7B	7.85
610-0256	6BL8/ECF80	4.50
610-0271	6BQ5/EL84	6.30
702-0056	6BQ7A/6BZ7/6BS8	7.90
899-0292	6BV8	8.65
899-0294	6BW4	5.75
702-0060	6C4	6.30
899-0304	6C5	15.50
899-0308	6CA4	6.10
702-0064	6CA7/EL34	9.45
610-0304	6CB6A/6CF6	5.30
899-0068	6CD6GA	10.70
702-0600	6CG3/6BW3	6.30
702-0602	6CG8A	6.90
702-0066	6CL6	7.85
899-0077	6CW4	15.90
702-0068	6CW5/EL86	5.50
899-0087	6DK6	5.55
899-0088	6DQ5	12.55
610-0320	6DW4B	6.00
899-0369	6E5	19.95
610-0406	6EA8	6.30
610-0415	6EJ7/EF184	5.85
899-0384	6EU7	6.10
610-0433	6EW6	5.75
899-0392	6F5	15.00
610-0316	6FQ7/6CG7	4.85
610-0457	6GF7A	8.50
610-0460	6GH8A	5.05
702-0604	6GJ7/ECF801	5.75
899-0105	6GK6	7.45
702-0606	6GM6	6.70
702-0608	6GU7	6.70
899-0089	6GW6/6DQ6B	8.60
702-0090	6GW8/ECL86	6.40
702-0610	6GY6/6GX6	5.55
702-0095	6H6	11.95
702-0612	6HA5/6HM5	6.15
702-0614	6HQ5	8.10
702-0616	6HS8	7.65
702-0618	6HV5A	14.20
702-0620	6HZ6	5.10
899-0470	6J5	12.90
899-0118	6J6A	8.30
702-0120	6J7	13.95
702-0622	6J10/6Z10	9.75
899-0476	6JB6	9.65
702-0624	6JC5/6JB5/6HE5	7.70
702-0626	6JC6A	7.15
702-0628	6JS6C	11.90
702-0630	6JU8A	7.10
702-0632	6KD6	13.55
702-0634	6KE8	9.75
702-0636	6KT8	8.70
899-0125	6KY8A	13.05
702-0638	6KZ8	6.55
610-0565	6L6GC	9.75
702-0640	6LB6	12.90
702-0642	6LF6	12.85
702-0644	6LJ8	7.15
702-0646	6LN8	4.55
610-0523	6LQ6/6JE6C	13.40
702-0648	6LR6	12.35
702-0650	6LU8	7.75
899-0553	6N7	16.80
899-0563	6SF5	14.35
899-0566	6SH7	15.30
899R0567	6SJ7	10.85
899-0569	6SK7	11.30
899-0128	6SL7GT	8.65
702R0135	6SN7GTB	6.20
610-0595	6U8A/6KD8	6.25
702-0652	6U10	6.55
651-9004	6V4/EZ80	3.72
610-0601	6V6GTA	7.35
899R0589	6X4	5.80
899-0590	6X5GT	5.90
899-0593	6Y6GA/6Y6G	6.95
899-0610	8AW8A	8.25
702-0138	8CM7	4.05
610-0625	8FQ7/8CG7	4.85
610-0646	12AT7/ECC81	5.50
702-0148	12AU6	5.45
610-0652	12AU7A/ECC82	4.90
610-0655	12AV6	4.70
899-0700	12AV7	7.60
702-0445	12AX7/7025	5.05
610-0667	12AX7A/ECC83/7025	5.05
702-0151	12AY7	6.63
899-0705	12B4A	6.70
610-0679	12BA6	4.65
702-0156	12BE6	5.15
702R0157	12BH7A	6.35
610-0688	12BY7A/12BV7/12DQ7	5.70
702-0159	12CU5/12C5	6.65
899-0764	12H6	12.25
610-0696	12HG7/12GN7A	8.95
702-1200	12HL7	7.80
899-0790	12SL7GT	8.75
899-0791	12SN7GTA	7.05
702-1300	13GF7	8.35
702-1700	17BF11	9.60
702-1705	17CT3	5.55
702-2100	21JZ6	8.45
702-2110	21LR8	7.95
702-2300	23Z9	8.60
899-0920	25C5	6.15
702-0175	25EC6/25CD6GB	9.55
702-0178	33GY7A	10.35
702-0169	35W4	4.05
702-3800	38HE7	11.75
702-4000	36KD6/40KD6	13.50
702-0171	50C5	4.90
899-0199	50L6GT	7.40
899-0990	7027A	11.65
900-0993	7247	6.15
899-0998	7591A	8.35
899-1000	7868	8.75
899-1001	8417	12.40

PRICING DISCOUNT SCHEDULE

RECEIVING TUBE TYPES MAY BE ASSORTED

1-9 Less 40% **10-49 Less 40-10%** **50-99 Less 50%** **100-Up Less 50-10%**

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Industrial and Special-Purpose Tubes

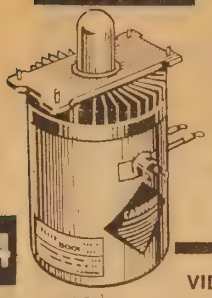
Stock No.	Tube Type	Unit Price
936-0005	0A2	$ 3.75
903-0001	0A2WA	7.43
702-0003	0A3	8.08
903-0013	0A4G	10.18
903-0034	0B2	5.38
903-0019	0B2WA	7.43
936-0006	0B3	7.79
903-0023	0C2	10.88*
702-0035	0C3	6.43
702-0036	0D3/0D3A	7.40
903-0035	1AD4	13.86
903-0022	C1K/6014	24.22
900-0058	1P22	32.33
900-0061	1P28	27.56
936-0007	1P39	12.69
784-0001	2AS15A	14.70*
936-0010	2C39A	35.07
936-0015	2C39B	51.15
936-0020	2C43	117.74
936-0022	2C51	8.98
702-0039	2D21	4.53
903-0040	2X2A	9.85
936-0023	3A4	11.50
903-0045	3-400Z/8163	84.17
903-0046	3-500Z	84.17
936-0025	3B28	20.29
903-0043	3C23	17.45
903Q0048	3CW20000A7	1042.10*
903Q0049	3CX1000A7/8283	310.00*
903Q0050	3CX1500A7/8877	260.00*
903Q0051	3CX2500A3/8161	240.00*
903Q0052	3CX2500F3/8251	250.00*
903Q0053	3CX3000A7	350.00*
903Q0054	3CX3000F1/8239	290.00*
903Q0055	3CX10000A7/8160	842.10*
903Q0056	3CX15000A7	947.35*
866-0005	NLC3J/AL	29.39
866-0010	NLC3J/ALNE	41.92
549-0050	C3J/L	29.39
549-0166	C3J/5632	24.88
549-0055	C3JA/5684	25.22
936-0030	4-65A/8165	62.63
903-0085	4-125A/4D21	77.32
900-0022	4-250A/5D22	85.17
936-0035	4-400A8438	91.85
903-0086	4-400C/6775	100.20
903Q0087	4-1000A/8166	221.00*
903-0088	4CX250B/7203	52.77
903-0089	4CX250BC/8957	58.87
903-0090	4CX250FG/8621	58.03
903-0091	4CX350A/8321	72.06
903-0092	4CX350F/8372	75.57
903Q0093	4CX3000A/8169	608.00*
903Q0094	4CX5000A/8170	622.00*
903Q0095	4CX15000A	947.35*
903Q0096	4D22	160.71*
903-0097	4X150A/7034	47.43
899-2041	5CP7A	57.82*
903Q0059	5CX1500A	395.00*
702-0062	5R4GYA	6.00
936-0040	5R4GYB	5.70
903-0062	5R4WGB	26.05
900-0216	5UP1	93.52
903-0200	6AH6WA	10.86
936-0043	6AJ5	7.25
936-0045	6AK6	3.90
903-0201	6AN5	10.25
903-0202	6AN5WA	12.84
936-0048	6AS6	9.55
936-0050	6AS7G	13.18
936-0052	6D4	9.12
936-0055	6DJ8/ECC88	5.00
866-0001	NLC6H-1	60.79
886-0002	NLC6H-2	62.79
866-0003	NLC6H-3	62.79
549-0100	ELC6J	55.95
549-0300	ELC6J/A	57.62
549-0206	ELC6J/F	57.95
549-0301	ELC6J/L	57.95
866-0022	C6J/P	57.95
866-0014	NLC6J/K	57.62
866-0017	NLC6J/KNE	77.15
866-0020	NLC6J/KP	62.79
936-0056	6J4	10.20
936-0057	6SL6WGT	8.50
549-0205	ELC16J	118.57
936-0058	26A7GT	18.63
702-0328	83	14.08
625-0185	85A2/0G3	5.88
936-0060	EF86/6267	3.90
936Q0065	102A	400.00*
936Q0070	250TH	131.00*
903Q0304	304TL	168.00*
936-0075	407A	11.13
936-0076	408A	12.80
903-0512	CK512AX	11.24
903-0533	533AX	11.34
903-0534	534AX	11.34
903-0069	575A	32.48
866-0023	NL604	37.74
866-0025	NL604L	39.75
866-0027	NL606L	57.95
866-0030	NL615	17.70
903-0625	625	110.81
936-0080	635/7019	34.40
866-0033	NL635L/7020	36.41
866-0040	NL660	44.26
866-0660	NL660L/7786	45.26
903-0678	678	96.44
903-0710	710/6011	23.13
866-0050	NL710L/1518	25.05
866-0057	NL714	25.38
866-0059	NL716	24.05
866-0061	NL734/5544	55.78
866-0063	NL734L	57.78
866-0065	740/6856	47.76
866-0067	NL740L/7022	49.93
866-0069	NL760L	55.28
903-0070	807	10.23
936-0085	810	73.48
903-0811	811A	11.69
936-0812	812A	15.71
936-0090	813	66.80
936-0095	816	14.25
936-0100	828	80.83
936-0105	829B	58.45
936Q0110	833A	124.20*
903-0866	866A	10.02
903Q0869	869B	170.50*
903Q0870	869BL	170.50*
903-0872	872A	19.12
936-0115	884	11.96
936-0120	922	12.50
903-0077	927	12.89
903-0080	930	10.40
936-0125	931A	21.71
866Q0086	NL1022A	231.00*
866Q0088	NL1051A	121.00*
866Q0090	NL1052A	183.00*
866Q0092	NL1053A	517.00*
866Q0094	NL1061	121.00*
866Q0096	NL1062	183.00*
866Q0098	NL1063	594.00*
866Q0100	NL1064	1596.00*
866Q0102	NL1081	145.00*
866Q0106	NL1082	219.00*
866Q0108	NL1091	145.00*
866Q0110	NL1092	219.00*
936-0126	1229	17.69
784-0006	1236C	23.38*
936-0128	2033	10.59
936-0129	2040	11.11
936-0130	2050	10.85
936-0135	2050A	8.75
903-0101	2050W	25.08
903Q0102	5550	106.00*
936-0140	5557	14.20
903-0105	5563A	96.44
903-0108	5581	14.86
900-0640	5582	20.88
903-0110	5583	17.87
936-0145	5636	12.70
936-0148	5639	10.81
936-0150	5642	9.15
936-0151	5643	10.74
903-0155	5651A	9.13
903-0113	5651WA	9.13
702-0114	5654	4.90
903-0115	5656	35.85
936-0160	5663	8.03
936Q0165	5668	935.00*
936-0170	5670	7.35
903-0119	5672	13.65
903-0121	5678	14.33
866-0115	NL5684NE	33.57
866-0120	NL5684AWE	35.57
936-0175	5687WB	8.95
903-0122	5691	12.29
936-0177	5692	12.00
903-0125	5693	13.25
936-0180	5696	6.28
903-1005	5702	15.36
903-1010	5703WB	20.22
936-0183	5718	13.18
936-0185	5719	13.18
903-1015	5725/6AS6W	11.30
903-0130	5726	4.08
702-0132	5727	7.68
903-1020	5744WB	20.79
936-0190	5749	7.25
936-0195	5750	7.35
702-0136	5751	6.78
903-0137	5755	23.78
936-0200	5763	6.60
903-1025	5787WA	15.51
936-0205	5814A	6.03
903-0140	5823	5.25
903-0141	5829WA	22.06
903-0142	5840	13.38
903-0143	5842	15.87
936-0207	5845	11.26
903-0319	5869	41.25
903-1205	CK5879	7.40
903-0144	5881	7.45
903-1212	CK5886	16.00
903-0147	5889	44.21
936-0208	5896	13.18
936-0210	5899	12.95
936-0215	5902	12.77
903-1030	5915	5.00
936-0214	5931	13.90
936-0216	5932	14.17
936-0217	5933	15.41
903-0150	5963	3.55
936-0218	5964	7.29
903-0154	5965	4.13
936-0219	5977	11.20
903-0156	6005	6.90
936-0220	6012	15.20
936-0225	6021W	13.73
936-0227	6028	12.80
903-0160	6072	12.03
900-0353	6076	520.30*
903-0162	6080	19.21
903-0163	6080WA	21.29
903-0164	6087/5Y3WGTB	10.15
903-0165	6088	10.04
936-0230	6111WA	13.73
936-0235	6112	12.43
903-0166	6136	6.03
936-0240	6146A	11.38
903-0169	6146B/8298A	12.11
903-0170	6146W	14.53
936-0242	6159A	11.23
903-0135	6186/6AG5WA	7.25
936-0243	6188	10.36
903-1040	6189/12AU7WA	6.30
903-0174	6201	11.25
903-0175	6202	5.38
936-0244	6205	14.35
936-0245	6211	6.93
903-1045	6293	14.53
903-0250	6336A	51.02
903-1050	6336B	76.42
936-0255	6360	12.73
903-1055	6397	19.27
903-1060	6418	10.39
903-1065	6419	13.96
903-1070	6476A	44.26
903-1290	CK6528	56.33
903-1080	6542	23.03
903-0178	6550	10.48
903-1085	6688	14.25
903Q1090	6693	126.50*
903-1095	6802	43.00
903-1100	6883/8032A/8552	11.69
651-0418	6907	95.61
936-0260	6910	21.54
651Q0420	6960A	360.00*
866-0130	NL6989/C6J/KL	62.79
866-0132	NL6989NE	74.48
702-0445	7025/12AX7	2.80
936-0261	7056	4.82
936-0262	7059	5.49
936-0263	7060	8.41
903Q1105	7136	126.50*
866-0160	NL7556ANE	41.42
936-0264	7551	10.78
936-0266	7558	10.93
936-0265	7586	11.50
936-0270	7587	19.85
866-0165	NL7723NE	28.89
866-0170	NL7786NE	49.93
900-2054	7788	39.41
936-0275	7815/3CPN10A5	48.43
936-0280	7895	13.05
936-0285	7905	14.70
936-0290	8008	18.37
936-0292	8056	15.82
936-0294	8058	27.61
936-0295	8077/7054	4.10
936-0820	8203	17.77
903Q1110	8270	156.80*
936-0830	8334	12.57
936-0837	8393	16.02
936-0850	8532W	10.60
936-0860	8627	29.26
936-0900	9002	12.19
936-0902	9003	12.76

Unit Price	1-9	10-49 Less	50-99 Less	100-Up Less
Below $10.00	Net	20%	30%	40%
Above $10.00	Net	20%	25%	Contact Your Nearest Allied Facility

* Contact Your Nearest Allied Facility For Qty. Price Breaks

Special Purpose Tubes and Sockets

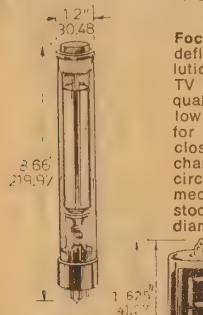
REPLACEMENT TUBES FOR MICROWAVE OVENS



Industrial heating magnetrons for use in microwave ovens, providing long life under intermittent operating conditions. Produce 800 or 1200 watts of 2450 MHz energy into a matched load, from a rectified unfiltered anode supply. Input is shielded to conform with H.E.W. requirements for fundamental radiation and FCC requirements for spurious radiation. Vertical operating position, either end up. †Minimum preheat time in seconds.

Stock No.	Mfr's Type	Output Watts	Anode V	Anode A	Cathode/Heater V	Cathode/Heater A	Cathode/Heater †	Cathode/Heater Type	Replaces Tube No.	Socket	Output System	Cooling	Wt. Lbs.	EACH 1-4	EACH 5-Up
651-0453	DX453A	800	3800	0.35	3.1	14	0	Direct	2M58	¼" tab	Wave-guide (dome)	Forced air (vert.)	4.5	106.88	80.50
651-0332	DX332	1200	3800	0.65	4.5	20	5	Direct	L-5001, M-57-D-7, M-57-D-11, L-5001A, L5238	Screw lug	Wave-guide (dome)	Forced air (vert.)	4.5	233.80	189.00

VIDICONS FOR COMMERCIAL, EDUCATIONAL, INDUSTRIAL AND MILITARY TV



Focus and Deflection Method: Magnetic-focus, magnetic-deflection vidicons provide highest center and corner resolution, but require the most electrical power and result in TV cameras having the most weight. **Type 7735B** is for high-quality tive TV and industrial cameras. Has high sensitivity, low lag and high resolution. Target is stringently controlled for blemishes. **Type 7735** is economy price type for general closed-circuit TV systems. Has good sensitivity and is mechanically similar to 7735B. **Type 7735A** is for general closed-circuit TV systems. Has good sensitivity, low lag and is mechanically similar to 7735B. **Heater Power:** Vidicons are stocked with conventional 3.8 watt heaters. All types are 1" diameter.

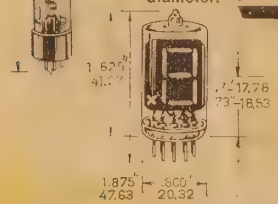
HIGH-PERFORMANCE BROADCAST AND INDUSTRIAL APPLICATIONS

Stock No.	Mfr's Type	Dia. Inch	Mesh-Wall Connection	Focus	Deflection	Heater Watts	EACH 1-4	EACH 5-Up
900-2053	7735B	1	Conventional	Magnetic	Magnetic	3.8	200.40	150.00

GENERAL CLOSED-CIRCUIT TV APPLICATIONS

900-2049	7735	1	Conventional	Magnetic	Magnetic	3.8	53.44	44.80
900-2050	7735A	1	Conventional	Magnetic	Magnetic	3.8	125.25	105.00

INCANDESCENT DIGITAL READOUT TUBES

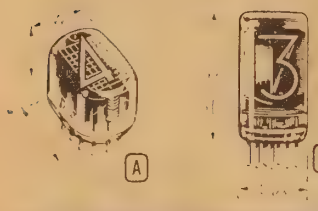


Mounting: Fit 9-pin miniature tube socket, or solder into PC board.

Bright, low-voltage devices may be used in DC or multiplex mode. Rugged, single-plane unit construction for high reliability and 100,000 hour life. Up-front display surface for wide viewing angle, with display of free residual images. Brightness adjustable with voltage controls, zero to 7000 fl; free of induced or radiated interference. Power Required: 108 mW/seg. Segment Current: 24 mA. Voltage: 4.5 VDC.

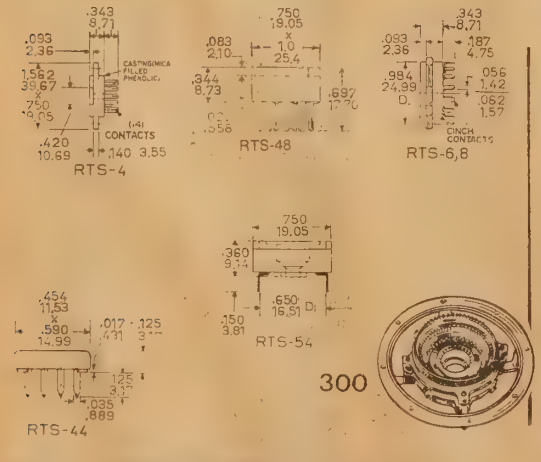
Stock No.	Mfr's Type	Equiv. Type	Description	Char. Ht.	Slant	View Angle	Mounting	Brightness	Envelope Ht.	Envelope Dia.	Pin Circle	EACH 1-9	EACH 10-Up
658-0300	DA2000	DR2000	0-9, no dec.	.600"	0°	140°	PC or 9-pin	7000 fl	1.625"	.800"	.468"	5.13	4.10
658-0310	DA2010	DR2010	0-9, L.H. dec.	.600"	0°	140°	PC or 9-pin	7000 fl	1.625"	.800"	.468"	5.38	4.30
658-0320	DA2100	DR2100	0-9, no dec.	.400"	4°	140°	PC or 10-pin	7000 fl	1.625"	.800"	.230"	5.38	4.30
658-0330	DA2110	DR2110	0-9, L.H. dec.	.400"	4°	140°	PC or 10-pin	7000 fl	1.450"	.800"	.230"	5.88	4.70

NUMERICAL NEON-GLOW READOUT TUBES



Stock No.	Tube Type	Fig.	Description	Max. DC Ion V	Prebias DCV	Cathode mA Average	Cathode mA Peak	Char. Ht.	Max. View	Max. Tube Ht.	Max. Tube Dia.	Fits Socket RTS-	EACH 1-9	EACH 10-99	EACH 100-Up
866-0200	NL-8422/5991	A	0-9	170	50-120	1.5-3.0	3.5	.610"	30°	1.120"	1.020"	4, 10	19.60	19.60	16.55
866-0123	NL-6844A	A	0-9	170	50-120	1.5-3.0	4.0	.610"	30°	1.125"	1.080"	1, 2, 6, 8, 9	23.21	19.85	16.95
866-0182	NL-8421/5092	A	0-9	170	50-120	1.5-3.0	3.5	.610"	30°	1.125	1.080"	1, 2, 6, 8, 9	20.15	20.15	17.00
866-0210	NL-8423/6091	A	0-9	170	65-120	1.5-4.0	4.5	.808"	38	1.212"	1.350"	1, 2, 6, 8, 9	26.22	22.40	19.05
866-0175	NL-8091	A	0-9	170	65-120	3.0-6.0	6.5	1.375"	65°	2.280"	2.060"	.....	51.85	39.00	34.40
866-0220	NL-5870S	B	Dbl. dec.	170	60-120	2.3-5.0	20*	.515"	25°	1.350"	.530"	44	14.75	8.40	7.20
866-0225	NL-5441	B	Dbl. dec.	170	50-120	1.5-3.0	3.5	.610"	30°	1.800"	.750"	54, 55, 56, 57	16.12	13.80	11.75
866-0230	NL-5441A	B	Dbl. dec.	170	50-120	1.5-3.0	3.5	.610"	30°	1.500"	.750"	54, 55, 56, 57	19.21	16.40	13.95
866-0083	NL-840/8754	B	0-9	170	50-120	1.5-3.0	3.5	.610"	30°	1.800"	.750"	48, 51, 52, 18	14.78	12.60	10.70
866-0240	NL-843	B	+ and −	170	50-120	1.5-3.0	3.5	.610"	30°	1.800"	.750"	48, 51, 52, 18	15.11	12.90	11.00
866-0084	NL-841	B	LH dec.	170	50-120	1.5-3.0	3.5	.610"	30°	1.800"	.750"	48, 51, 52, 18	15.62	13.30	11.30

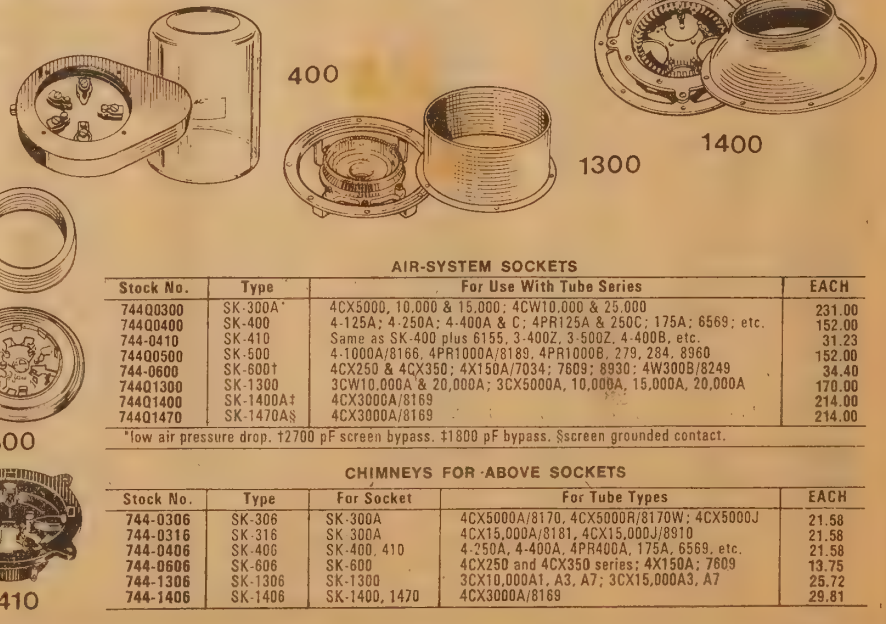
*strobe only.



For use with numerical neon-glow readout tubes listed above.

Stock No.	Mfr's Type	For Use With Tube Types	Shape	EACH
866-0304	RTS-4	NL-8422/5991	Oblong	1.78
866-0306	RTS-6	NL-6844A, 8421/5092, 8423/6091	Round	2.58
866-0308	RTS-8		Round	2.03
866-0344	RTS-44	NL-5866S, 5870S	Rect.	1.60
866-0348	RTS-48	843, 841	Rect.	2.33
866-0354	RTS-54	NL-5441, 5441A	Round	4.65

Tube Sockets and Chimneys



AIR-SYSTEM SOCKETS

Stock No.	Type	For Use With Tube Series	EACH
744Q0300	SK-300A*	4CX5000, 10,000 & 15,000; 4CW10,000 & 25,000	231.00
744Q0400	SK-400	4-125A; 4-250A; 4-400A & C; 4PR125A & 250C; 175A; 6569; etc.	152.00
744-0410	SK-410	Same as SK-400 plus 6155, 3-400Z, 3-500Z, 4-400B, etc.	31.23
744Q0500	SK-500	4-1000A/8166, 4PR1000A/8189, 4PR1000B, 279, 284, 8960	152.00
744-0600	SK-600†	4CX250 & 4CX350; 4X150A/7034; 7609; 8930; 4W300B/8249	34.40
744Q1300	SK-1300	3CW10,000A & 20,000A; 3CX5000A, 10,000A, 15,000A, 20,000A	170.00
744Q1400	SK-1400A‡	4CX3000A/8169	214.00
744Q1470	SK-1470A§	4CX3000A/8169	214.00

*low air pressure drop. †2700 pF screen bypass. ‡1800 pF bypass. §screen grounded contact.

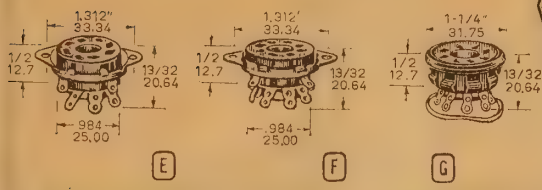
CHIMNEYS FOR ABOVE SOCKETS

Stock No.	Type	For Socket	For Tube Types	EACH
744-0306	SK-306	SK-300A	4CX5000A/8170, 4CX5000R/8170W; 4CX5000J	21.58
744-0316	SK-316	SK-300A	4CX15,000A/8181, 4CX15,000J/8910	21.58
744-0406	SK-406	SK-400, 410	4-250A, 4-400A, 4PR400A, 175A, 6569, etc.	21.58
744-0606	SK-606	SK-600	4CX250 and 4CX350 series; 4X150A; 7609	13.75
744-1306	SK-1306	SK-1300	3CX10,000A1, A3, A7; 3CX15,000A3, A7	25.72
744-1406	SK-1406	SK-1400, 1470	4CX3000A/8169	29.81

Letter "Q" in Stock Number Indicates Direct Factory Shipment to You

Tube Sockets, Plugs, Multi-Purpose Connectors

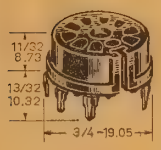
BAKELITE OCTAL SOCKETS



Saddle types have 4 ground lugs. Fig. **E:** 1½" centers, clinch-on steel saddle, 1⅛" d. Fig. **F:** 1⅝" centers, press-on saddle, 1" d. Fig. **G:** 1 1⁄64" d., have keyway and retaining ring 8RO. Mtg. col. is rivet hole diameter or chassis thickness, 1 oz.

Stock No.	Mfr's Type	Fig.	Description	Mtg.	EACH 1-9	10-24	25-49	50-Up
750-0955	8EB	E	Black	.143"	.43	.29	.23	.21
750-0950	8AB	F	Black	.136	.43	.29	.23	.21
750-0965	8R1	G	Black	1⁄16"	.65	.46	.39	.33
750-0971	8RO	..	Retainer ring	....	.31	.29	.28	.25

STAND-OFF SOCKETS FOR PRINTED CIRCUITS

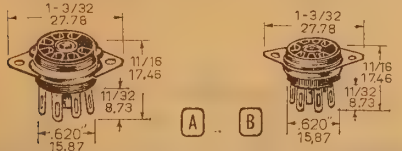


Stand-off sockets rest on shoulder of the contact tail — provide air gap for cooling and eliminating possibility of a moisture trap. Designed for 1⁄16" printed circuitry. All are constructed of general-purpose black phenolic insulators with hot tinned brass contacts. Av. shipping weight is 1 oz.

TYPE 7PC-B1. For 7-pin miniature tubes.
750-0916. 1-9 ..... Each .26 **10-24** ..... Each .21
25-49 ..... Each .19 **50-Up** ..... Each .17

TYPE 9PC-B1. For 9-pin miniature tubes.
750-0998. 1-9 ..... Each .32 **10-24** ..... Each .29
25-49 ..... Each .23 **50-Up** ..... Each .21

MINIATURE TUBE SOCKETS, SHIELDS, BASES



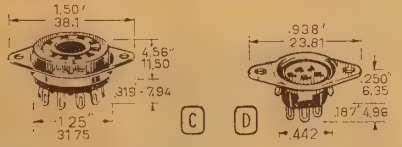
7-pin sockets, mount on ⅞" ctrs.; sockets require ⅝" hole. 9-pin sockets, mount on 1⅛" ctrs.; sockets require ¾" hole. Diameter of rivet holes: .098". Molded insulators are type MFE material. Meet **JAN/MIL TS-102P01.** Wt. 1 oz.

A TOP-MOUNTING SOCKETS

Stock No.	Mfr's Type	Description	1-24	25-49	50-99	100-Up
750-0900	7AB1	7-pin black bakelite	.38	.24	.21	.19
750-0980	9AB	9-pin black bakelite	.38	.23	.21	.19

B BOTTOM-MOUNTING SOCKETS

750-0902	7EB	7-pin mica-filled bakelite	.32	.21	.19	.17
750-0983	9EB	9-pin black bakelite	.38	.23	.21	.19
750-0984	9EM	9-pin mica-filled bakelite	.42	.30	.28	.27

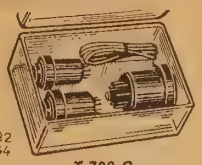


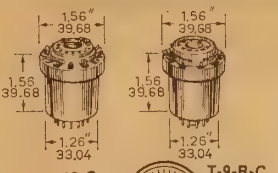
C NOVAR TUBE SOCKETS. Molded from mica-filled bakelite and have cadmium plated brass contacts. Has 1½" mounting centers. Av. shpg. wt. 1 oz.

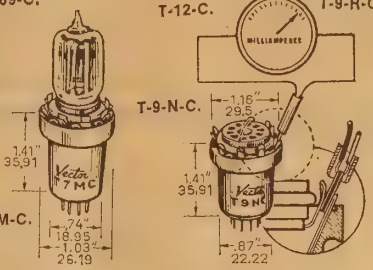
Stock No.	Mfr's Type	1-24	25-49	50-99	100-up
750-0995	9NS-M	.55	.45	.38	.30

D NUVISTOR 5-PIN TUBE SOCKETS. Saddle mount subminiature 5-pin sockets designed for nuvistor tubes. Made of Type MFE, low-loss phenolic insulation; saddle of cold rolled steel cadmium-plated. Contacts are copper alloy and cad-plated Average shipping weight is 1 oz.

750-0878	5NS-1	.60	.43	.33	.28



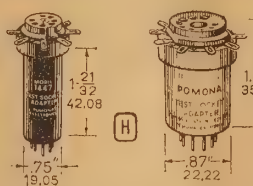




CURRENT SOCKET ADAPTER KITS

TYPE T-7-M-C. Measure tube current and voltage from tube side of equipment. Fits shield-base of 7-pin min. socket. Dual-contact test tabs on adapter break circuit when optional dual-contact probe (below) is inserted. Cap., approx. 1 pF. Flashover voltage, over 1500 VDC. Phenolic body, 1.47" long (less prongs). Shpg. wt., ¾ oz.

TYPE T-9-R-C. Fits 9-pin Novar socket. Lgth., 1.81", 2 oz.
TYPE T-12-C. Fits 12-pin Compactron socket. Lgth., 1.81", 2 oz.
T912C. T-12-C, T-9-R-C Adapters; P-2 Probe; plastic case. 6 oz.
977-0999. 1-19-Ea. 29.83 20-99-Ea. 25.57 100-Up-Ea. 23.80
TYPE T-9-N-C. Fits into shield base for 9-pin miniature types. Same specifications as T-7-M-C above. ¾ oz.
T-789-C. T-7-M-C, T-8-O-C, T-9-N-C Adapters; P-2 Probe; plastic case. Shpg. wt. 6 oz.
977-0996. 1-19-Ea. 32.00 20-99-Ea. 23.75 100-Up-Ea. 22.30

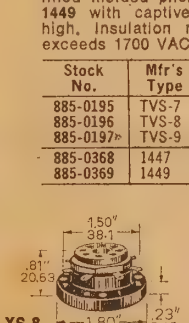


TEST-SOCKET TUBE ADAPTERS

For measurement from tube-side of chassis. Long test-tabs for easy connection. **Types TVS** are low-loss mica-filled molded phenolic per **MIL-M-14 MFE. Types 1447, 1449** with captive or telescoping tube shields; 1²⁵⁄₃₂" high. Insulation resistance, 500,000 megs; breakdown exceeds 1700 VAC or DC. Av. shpg. wt. 5 oz.

Stock No.	Mfr's Type	Fig.	Pins	Description	1-24	25-Up
885-0195	TVS-7	J	7	Miniature	4.13	2.75
885-0196	TVS-8	J	8	Octal	4.88	3.25
885-0197	TVS-9	J	9	Miniature	4.43	2.95
885-0368	1447	H	7	Miniature	4.13	2.75
885-0369	1449	H	9	Miniature	4.43	2.95

BREADBOARD SOCKETS



Surface-mount sockets have insulated base with numbered connections. Phosphor bronze spring contacts. Standard center-to-center mounting holes. 9-pin mounts in center or on side, 8-pin mounts on side. 2 oz.

Stock No.	Mfr's Type	Desc.	EACH 1-9	10-49	50-99	100-Up
885-0202	XS-8	8-pin octal	2.83	2.26	1.53	1.50
885-0203	XS-9	9-pin min.	2.08	1.10	.99	.95

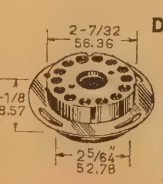
DUODECAL CRT SOCKET



Mica-filled, phenolic socket has 12 prongs. Accepts 10BP4; 2BP1, 5TP4, etc.; RCA 6199. **Meets JETEC B12-43** specs. Wt. 4 oz.

Stock No.	Mfr's Type	Desc.	EACH 1-9	10-24	25-49	50-Up
750-0856	3M12	Socket	5.50	4.56	3.63	3.02

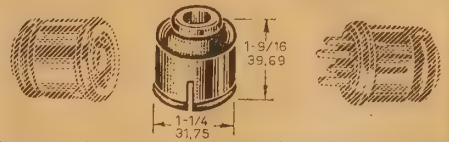
DIHEPTAL CRT SOCKET



Mica-filled 14-prong sockets. Accept 6217, 5819. **Meets JEDEC B12-37.** Less mounting ring. 5 oz.

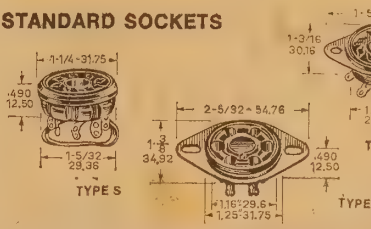
750-0857	3M14	Mica-filled	5.03	4.18	3.32	2.79
750-0859	3R14	Mtg. ring	1.98	1.93	1.51	1.30

CONNECTOR CAP FOR 78S SOCKETS AND 86CP PLUGS



Protect terminals and wires with unbreakable metal cap. Caps are screwdriver removable. 3-13 cap fits 78S and 86CP types below. Av. shpg. wt. 3 oz.
713-0013. Type 3-13. **1-49** ..... Each .50
50-99 ..... Each .32 **100-249** ..... Each .28
250-Up ..... Each .24

STANDARD SOCKETS



TYPE S. This high-dielectric, molded bakelite socket comes with mount and retainer ring. It mounts in 1¹⁵⁄₁₆" keyed hole. Av. shipping weight is 5 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-24	25-49	50-99	100-Up
713-2926	78S4	4	.90	.57	.47	.42
713R2934	78S8	Octal	.83	.62	.51	.45
713-2936	78S9	9	.90	.57	.47	.42
713-2939	78S11	11	.93	.69	.58	.50

TYPE RS. Same as Type S, except it comes equipped with a removable mounting plate. Mounts in 1¹⁵⁄₆₄" hole and has slotted mounting holes to fit centers from ½" to 1⅞". Av. shipping weight is 5 oz.

713-2911	78RS5	5	1.25	.80	.66	.58
713-2914	78RS8	Octal	1.25	.80	.66	.58
713-2923	78RS11	11	1.43	.90	.75	.66

TYPE RSS. This ultra-low-loss steatite socket is excellent for high frequency transmitting equipment. Universal type and has removable mounting plate with slotted holes 1½" to 1⅞". Mounts in 1¼" hole. Av. wt. 5 oz.

713-1311	49RSS4	4	2.83	1.80	1.50	1.30
713-1316	49RSS8	Octal	2.93	1.85	1.54	1.34

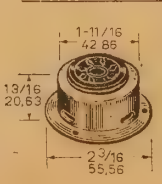
TYPE M1P. Has bakelite body with molded-in steel plate. *Mounts in 1⅛" hole; mounting centers, 1⁵⁄₁₆"; all others have 1½" mounting centers. §Requires 1⁹⁄₃₂" hole. ‡Mica-filled bakelite. Mates with 86CP plugs below. Avg. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Prongs	EACH 1-24	25-49	50-99	100-Up
713-2800	77MIP4§	4	.98	.62	.51	.45
713-2803	77MIP5§	5	1.05	.67	.56	.48
713R2810	77MIP8§	Octal	.68	.62	.51	.45
713-3700	78-88-8*	Octal	.78	.59	.49	.43
713-2809	77MIP8T§‡	Octal	1.05	.67	.56	.48
713R2815	77MIP11§	11	.78	.72	.60	.52
713-2816	77MIP11T‡	11	1.18	.75	.62	.54
713-2821	77MIP20§	20	2.35	1.49	1.24	1.08

SERIES 86 STANDARD CP PLUGS

Bakelite CP type plugs ideal for use as chassis connectors, with plug-in units or as inexpensive cable connectors. Retainer ring mtg. Come with mtg. ring for 1¹⁵⁄₆₄" holes. With guide post, aligning key. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Pin	EACH 1-24	25-49	50-99	100-Up
713-3602	86-CP4	4	.78	.49	.41	.36
713-3603	86-CP5	5	.80	.51	.43	.37
713-3606	86-CP8	Octal	.73	.54	.45	.39
713-3610	86-CP11	11	.75	.57	.47	.41



ACS SOCKET-SHELL

TYPE 61-23. For S, RS, RSS sockets. 1³⁄₁₆" abv/blw chassis. 1¾" mtg.
713-0501. 1-24 ..... Ea. .51
25-49 ..... Ea. .35
50-99 ..... Ea. .29
100-Up ..... Ea. .25

Light Devices Cross-Reference and Index

LIGHT DEVICES INDEX

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Stock No.	Page	Chicago Miniature	Fairchild	Hewlett-Packard	Litronix	Monsanto	Motorola	OPCOA	Xciton
649-0443	45	CM4-43B		5082-4480 5082-4484 5082-4494	RL209 RL4484		MLED-455	OPL209A OPL209A-A OPL209A-50	
649-0450	45	CM4-50A			RL50	MV50	MLED-50		
649-0453	45	CM4-53			RL50-01 RL54	MV54	MLED-55		
649-0473	45	CM4-73A	FLV110 FLV117		RL-2	MV50104			XC110
649-0483	45	CM4-83		5082-4880 5082-4881 5082-4882	RL5054-1	MV5054-1	MLED-665	LSM-6L-50	
649-0510	45	CM4-84B-0		5082-4440 5082-4850	RL4440 RL4850			LSL-6L-50	
649-0520	45	CM4-84B	FLV150 FLV160	5082-4403	RL20 RL4403	MV5053	MLED-655	LSL-6L LSL-8L-1	XC5053
649-0530	45	CM4-84B-2						LSL-8L-51	
649-0620	45	CM4-282B	FLV251 FLV252	5082-4657 5082-4658		MV5752		LSM-8L-1 LSM-8L-51 LSL-6L-A	XC554-3 XC554-6 XC554-9
649-0630	45	CM4-284B	FLV250 FLV260	5082-4650 5082-4655	RL2000	MV5753		LSL-18L-1 LSL-18L-51	
649-0650	45	CM4-382B	FLV351 FLV352 FLV356	5082-4957 5082-4958		MV5252		LSM-18L-1, -18L-51 LSL-16L, -16L-50 LSM-16L, -16L-50	XC554G-2 XC554G-4 XC554G-6
649-0660	45	CM4-384B	FLV350 FLV355 FLV360 FLV365	5082-4950 5082-4955		MV5253	MLED-750		
649-0680	45	CM4-482B				MV5152			XC554A-2 XC554A-4 XC554A-6
649-0690	45	CM4-484B			OL30	MV5153			XC5053A
649-0720	45	CM4-582B		5082-4557 5082-4558		MV5352		LSL-28L-1, -28L-A1, -28L-51; LSM-28L-1, -28L-A1, -28L-51	XC554Y-2 XC554Y-4 XC554Y-6
649-0730	45	CM4-584B	FLV450 FLV455 FLV460 FLV465	5082-4550 5082-4555		MV5353	MLED-850	LSL-26L, -26L-A LSL-26L-50 LSM-26L, -26L-A LSM-26L-50	XC5053Y

IEE TO MONSANTO

Stock No.	Page No.	IEE	MONSANTO
658-2005	45	174E	MV5174B
658-2006	45	174E-1	MV5174C
658-2010	45	177E-1	MV5177C
658-2015	45	274G-1	MV5274C
658-2020	45	277G	MV5277B
658-2021	45	277G-1	MV5277C
658-2025	45	374Y-1	MV5374C
658-2030	45	377Y	MV5377B
658-2031	45	377Y-1	MV5377C
658-2035	45	520RC	MV5020
658-2040	45	521RW	MV5021
658-2045	45	522RT	MV5022
658-2050	45	523R	MV5023
658-2055	45	524R	MV5024
658-2060	45	525R	MV5025
658-2065	45	526R	MV5026
658-2070	45	550RC	MV5050
658-2080	45	551RW	MV5051
658-2085	45	554R-1	MV5054-1
658-2086	45	554R-2	MV5054-2
658-2087	45	554R-3	MV5054-3
658-2090	45	555R	MV5055
658-2095	45	556R	MV5056
658-2100	45	574R	MV5074B
658-2101	45	574R-1	MV5074C
658-2105	45	575R	MV5075B
658-2106	45	575R-1	MV5075C
658-2110	45	577R	MV5077B
658-2111	45	577R-1	MV5077C
658-2150	45	774R-1	MV5774C
658-2155	45	777R	MV5777B
658-2156	45	777R-1	MV5777C

IEE TO HEWLETT-PACKARD

Stock No.	Page No.	IEE	HEWLETT-PACKARD
658-2075	45	550Y	5082-4550
658-2115	45	584Y	5082-4584
658-2120	45	590Y	5082-4590
658-2125	45	595YT	5082-4595
658-2130	45	650R	5082-4650
658-2135	45	684R	5082-4684
658-2140	45	690R	5082-4690
658-2145	45	694RT	5082-4694
658-2160	45	950G	5082-4950
658-2165	45	984G	5082-4984
658-2170	45	990G	5082-4990
658-2175	45	995GT	5082-4995

INDUSTRIAL DEVICES TO LEECRAFT

Stock No.	Page No.	Industrial Devices	Leecraft
679-5001	50	2330QD1	31-2111T
679-5005	50	2330D1	31-2111
679-5015	50	2330D3	31-2113
679-5100	50	1050C1	32-2111, 32R2111
679-5105	50	1050QC1	32-2111T, 32R2111T
679-5110	50	1050C3	32-2113, 32R2113
679-5115	50	1050QC3	32-2113T, 32R2113T
679-5120	50	1050C4	32-2115, 32R2115
679-5125	50	1050QC4	32-211ST, 32R2115T
679-5130	50	1050C2	32-2117, 32R2117
679-5135	50	1050QC2	32-2117T, 32R2117T
679-5150	50	1050A1	32-2211, 32R2211
679-5155	50	1050QA1	32-2211T, 32R2211T
679-5160	50	1050A3	32-2213, 32R2213
679-5165	50	1050QA3	32-2213T, 32R2213T
679-5170	50	1050A4	32-2215, 32R2215
679-5185	50	1050QA2	32-2217T, 32R2217T
679-6060	50	1050N1	32R2911
679-6065	50	1050QN1	32R2911T
679-6070	50	1050N3	32R2913
679-6075	50	1050QN3	32R2913T
679-6080	50	1050N4	32R2915
679-6084	50	1050QN4	32R2915T
679-6090	50	1050N2	32R2917
679-6400	49	2150A1	36EN2111, 36URN2111, 41EN2111
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679-6410	49	2150A4	36EN2115, 36URN2115, 41EN2115
679-6415	49	2150A2	36EN2117, 36URN2117, 41EN2117
679-6611	49	2110A1	36EN2311, 36N2311
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679-6615	49	2110A4	36EN2315, 36N2315
679-6617	49	2110A2	36EN2317, 26N2317

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Stock No.	Page	Chicago Min./ Drake	Leecraft
749-0250	52	4157-018	2-01
749-0265	52	4157-319	2-04
749-0260	52	4157-314	2-06
749-0255	52	4157-249	2-15
749-0325	52	4345-011	11-271
749-0330	52	4345-312	11-272
749-0355	52	4365-034	12-240
749-0350	52	4365-011	12-271
749-0360	52	4365-312	12-272
749-0400	52	4407-312	14-72
749-0100	52	4006-308	16-08
749-0135	52	4061-314	5-06
749-0125	52	4061-063	5-08
749-0130	52	4061-072	5-13
749-0300	52	4301-314	6-06
749-0200	52	4151-014	7-05
749-0225	52	4151-314	7-06
749-0215	52	4151-115	7-08
749-0210	52	4151-112	7-11
749-0205	52	4151-107	7-13
749-0220	52	4151-129	7-20
749-0150	52	4099-017	7-35
749-0600	52	4601-051	25-12
749-0605	52	4601-314	25-06
749-0655	52	4605-308	25-208
749-0650	52	4605-053	25-212
749-0675	52	4615-032	25-230N-1
616-3750	50	6386-001-607R	41EN-G1-2111
616-3760	50	6387-001-607R	41EN-G3-2111
616-3765	50	6387-001-607A	41EN-G3-2113
616-3795	50	6388-001-607R	41EN-G5-2111
616-3800	50	6388-001-607G	41EN-G5-2112
616-3805	50	6388-001-607A	41EN-G5-2113
616-3755	50	6387-001-507R	41EN-G3-2311
616-3770	50	6388-001-507R	41EN-G5-2311
616-3775	50	6388-001-507G	41EN-G5-2312
616-3780	50	6388-001-507A	41EN-G5-2313
616-3785	50	6388-001-507B	41EN-G5-2314
616-3790	50	6388-001-507W	41EN-G5-2315

CHICAGO MINIATURE/DRAKE TO DIALCO

Stock No.	Page	Chicago Min./ Drake	Dialco
616-4840	47	CML10202-1	508-8738-504
616-203X	48	5201-222-307	52-0410-0971-301
616-218X	48	5201-223-307	95-1310-0131-301
616-531X	48	5131-036-304	101-8430-0971-201
616-535X	48	5131-038-303	162-8430-093X
616-071X	48	5100-822-307	81-9110-011X-102
616-296X	49	5786-523-416	51-3101-1331-301
616-295X	49	5786-523-105	51-3114-0111-301
616-219X	48	5201-223-326	52-1310-0991-301
616-0400	47	5050-101-113	502-8140-2131-100
616-206X	48	5201-222-326	135-0410-1431-301
616-834X	47	CML64011X	507-3907
616-8320	47	CML64028X	507-3914
616-830X	47	CML64027X	507-3918
616-833X	47	CML64040X	507-3917
616-475X	47	CM44-11002X	507-4757-3331-500
616-4777	47	CM44-21002X	507-4757-3731-500

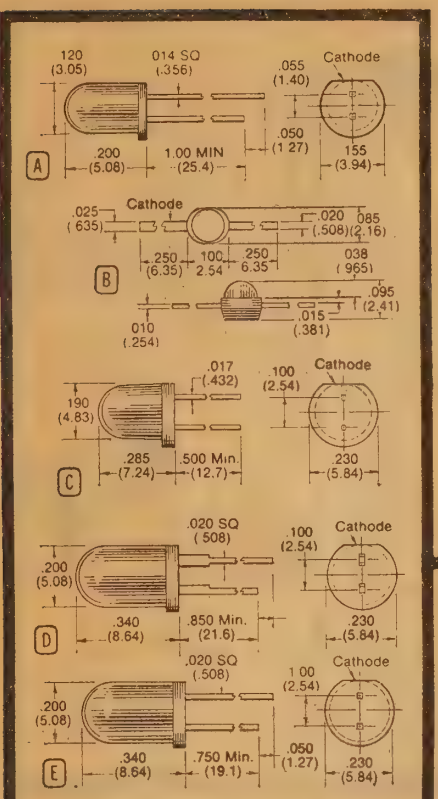
LED's, LED Displays and Incandescent Displays

SUPER BRIGHT AND STANDARD LEDS

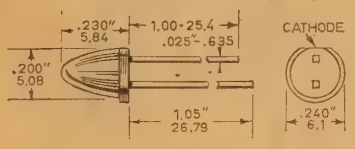
Features include: low power consumption for IC compatibility and for cool operation; long operating life which virtually eliminates replacement; solid lens construction—shockproof; temperature/humidity cycling reliability inherent in semiconductor devices; tin-plated leads eliminate solderability problems. CM4-43B is T-1 size; CM4-50 Series are T-¾ for high density panels; balance are T-1¾ size.

Stock No.	Mfr's Type	Fig. Style	COLOR Light	COLOR Lens	Lum. Int. @ 20mA	View Ang.	V_f @ 20mA	V_r (min) @ 100 mA	Max. Cont. Fwd. Cur.	Max. Pwr. Dissap.	EACH 1-99	EACH 100-999	EACH 1000-Up
649-0443	CM4-43B	A	Red	Red D	1.0mcd	90°	1.7V	5.0V	50mA	100mW	.54	.36	.30
649-0450	CM4-50A	B	Red	Clr T	1.4mcd	90°	1.65V	5.0V	40mA	80mW	.27	.17	.15
649-0453	CM4-53	B	Red	Red D	1.0mcd	90°	1.65V	5.0V	40mA	80mW	.37	.18	.17
649-0473	CM4-73A	C	Red	Red D	2.0mcd	70°	1.7V	5.0V	50mA	100mW	.34	.22	.18
649-0483	CM4-83	D*‡	Red	Red D	2.0mcd	24°	1.8V	5.0V	100mA	180mW	.32	.22	.18
649-0510	CM4-84B-0	E‡	Red	Red D	.8mcd	80°	1.7V	5.0V	100mA	180mW	.29	.20	.16
649-0520	CM4-84B	E‡	Red	Red D	1.6mcd	80°	1.7V	5.0V	100mA	180mW	.32	.22	.18
649-0530	CM4-84B-2	E‡	Red	Red D	2.0mcd	80°	1.7V	5.0V	100mA	180mW	.43	.30	.25
649-0610	CM4-244B	A†	Red	Red D	5.0mcd	90°	2.0V	5.0V	35mA	105mW	.81	.60	.50
649-0620	CM4-282B	E‡†	Red	Red T	40.0mcd	28°	2.0V	5.0V	35mA	105mW	.65	.48	.40
649-0630	CM4-284B	E‡†	Red	Red D	4.0mcd	65°	2.0V	5.0V	35mA	105mW	.65	.48	.40
649-0640	CM4-344B	A†	Grn.	Grn. D	1.0mcd	90°	2.2V	5.0V	35mA	105mW	.81	.60	.50
649-0650	CM4-382B	E‡†	Grn.	Grn. T	15.0mcd	28°	2.2V	5.0V	35mA	105mW	.65	.48	.40
649-0660	CM4-384B	E‡†	Grn.	Grn. D	1.5mcd	65°	2.2V	5.0V	35mA	105mW	.65	.48	.40
649-0670	CM4-444B	A†	Orng.	Orng. D	5.0mcd	90°	2.0V	5.0V	35mA	105mW	.81	.60	.50
649-0680	CM4-482B	E‡‡	Orng.	Orng. T	40.0mcd	28°	2.0V	5.0V	35mA	105mW	.65	.48	.40
649-0690	CM4-484B	E‡‡	Orng.	Orng. D	4.0mcd	65°	2.0V	5.0V	35mA	105mW	.65	.48	.40
649-0710	CM4-544B	A†	Yel.	Yel. D	4.0mcd	90°	2.1V	5.0V	35mA	105mW	.81	.60	.50
649-0720	CM4-582B	E‡†	Yel.	Yel. T	45.0mcd	28°	2.1V	5.0V	35mA	105mW	.65	.48	.40
649-0730	CM4-584B	E‡†	Yel.	Yel. D	6.0mcd	65°	2.1V	5.0V	35mA	105mW	.65	.48	.40

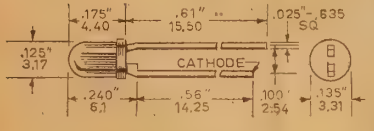
*Lum. Int. @ 10mA, † Super Bright, ‡ Comes with mounting clip. Under color lens column: D is for Diffused, T is for Transparent.



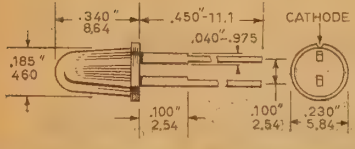
590Y



584Y



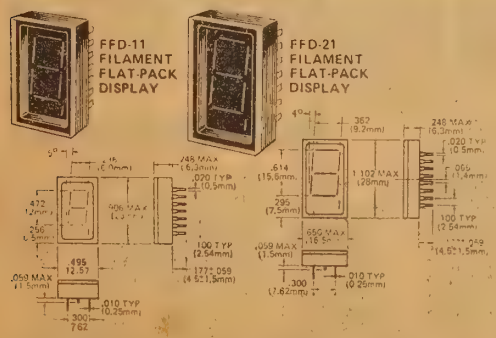
521RW



JUPITER SOLID-STATE INDICATORS

Ideally suited for visual indicators, large displays and built-in diagnostics. High brightness with low cost and solid state reliability. Choice of red, yellow, orange and green diffused light. TTL/DTL circuit compatible. Size is either T-1 or T-1¾. Mounting Ring. *80328, ‡80317, †80327. Types 584Y, 590Y and 521RW are illustrated at left.

Stock No.	Mfr's Type	Size	Color Light	Color Lens	Lum. Int. @ 20mA	V_f @ 20mA	Rev. Volt.	Cont. Fwd. Cur.	Power Dissap.	EACH 1-49	EACH 50-99	EACH 100-Up
658-2005	174E	T-1	Orng.	Orng. D	5.0mcd	2.0V	5.0V	35mA	105mW	.68	.54	.45
658-2006	174E-1	T-1	Orng.	Orng. D	5.0mcd	2.0V	5.0V	35mA	105mW	.90	.70	.60
658-2010	177E-1	T-1	Orng.	Orng. D	3.0mcd	2.0V	5.0V	35mA	105mW	.90	.70	.60
658-2015	274G-1	T-1	Grn.	Grn. D	1.0mcd	2.2V	5.0V	35mA	105mW	.90	.70	.60
658-2020	277G	T-1	Grn.	Grn. D	0.6mcd	2.2V	5.0V	35mA	105mW	.68	.54	.45
658-2021	277G-1	T-1	Grn.	Grn. D	0.6mcd	2.2V	5.0V	35mA	105mW	.90	.67	.60
658-2025	374Y-1	T-1	Yel.	Yel. D	4.0mcd	2.1V	5.0V	35mA	105mW	.90	.67	.60
658-2030	377Y	T-1	Yel.	Yel. D	2.0mcd	2.1V	5.0V	35mA	105mW	.68	.50	.45
658-2031	377Y-1	T-1	Yel.	Yel. D	2.0mcd	2.1V	5.0V	35mA	105mW	.90	.67	.60
658-2035	520RC*	T-1¾	Red	Clr.	2.0mcd	1.65V	5.0V	100mA	180mW	.73	.44	.41
658-2040	521RW*	T-1¾	Red	Wht. D	1.6mcd	1.65V	5.0V	100mA	180mW	.73	.44	.41
658-2045	522RT*	T-1¾	Red	Red	1.6mcd	1.65V	5.0V	100mA	180mW	.73	.44	.41
658-2050	523R*	T-1¾	Red	Red D	1.6mcd	1.65V	5.0V	100mA	180mW	.63	.39	.35
658-2055	524R*	T-1¾	Red	Red D	3.0mcd	1.65V	5.0V	100mA	180mW	.63	.39	.35
658-2060	525R*	T-1¾	Red	Red D	0.4mcd	1.65V	5.0V	100mA	180mW	.63	.39	.35
658-2065	526R*	T-1¾	Red	Red D	0.6mcd	1.65V	5.0V	100mA	180mW	.63	.39	.35
658-2070	550RC‡	T-1¾	Red	Clr.	2.0mcd	1.7V	5.0V	100mA	180mW	.48	.33	.31
658-2075	550Y†	T-1¾	Yel.	Yel. D	1.8mcd	2.2V	5.0V	20mA	120mW	.70	.57	.52
658-2080	551RW‡	T-1¾	Red	Wht. D	1.6mcd	1.7V	5.0V	100mA	180mW	.48	.33	.31
658-2085	554R-1‡	T-1¾	Red	Red D	2.0mcd	1.8V	5.0V	100mA	180mW	.35	.24	.22
658-2086	554R-2‡	T-1¾	Red	Red D	3.0mcd	1.8V	5.0V	100mA	180mW	.45	.33	.30
658-2087	554R-3‡	T-1¾	Red	Red D	4.0mcd	1.8V	5.0V	100mA	180mW	1.13	.88	.78
658-2090	555R‡	T-1¾	Red	Red D	0.6mcd	1.7V	5.0V	100mA	180mW	.43	.33	.30
658-2095	556R‡	T-1¾	Red	Red D	0.8mcd	1.7V	5.0V	100mA	180mW	.48	.34	.31
658-2100	574R	T-1	Red	Red D	2.5mcd	1.68V	5.0V	50mA	100mW	.33	.22	.20
658-2101	574R-1	T-1	Red	Red D	2.5mcd	1.68V	5.0V	50mA	100mW	.60	.40	.36
658-2105	575R	T-1	Red	Red D	1.6mcd	1.68V	5.0V	50mA	100mW	.33	.22	.20
658-2106	575R-1	T-1	Red	Red D	1.6mcd	1.68V	5.0V	50mA	100mW	.60	.40	.36
658-2110	577R	T-1	Red	Red D	1.75mcd	1.68V	5.0V	50mA	100mW	.33	.25	.20
658-2111	577R-1	T-1	Red	Red D	1.75mcd	1.68V	5.0V	50mA	100mW	.60	.40	.36
658-2115	584Y	T-1	Yel.	Yel. D	2.5mcd	2.2V	5.0V	20mA	120mW	.68	.54	.50
658-2120	590Y	T-1¾	Yel.	Yel. D	3.5mcd	2.2V	5.0V	20mA	120mW	.70	.57	.52
658-2125	595YT	T-1¾	Yel.	Yel.	6.5mcd	2.2V	5.0V	20mA	120mW	.88	.67	.62
658-2130	650R†	T-1¾	Red	Red D	2.0mcd	2.2V	5.0V	20mA	120mW	.70	.57	.52
658-2135	684R	T-1	Red	Red D	2.5mcd	2.2V	5.0V	20mA	120mW	.68	.54	.50
658-2140	690R	T-1¾	Red	Red D	3.5mcd	2.2V	5.0V	20mA	120mW	.70	.57	.52
658-2145	694RT	T-1¾	Red	Red	8.0mcd	2.2V	5.0V	20mA	120mW	.88	.67	.62
658-2150	774R-1	T-1	Orng.	Orng. D	5.0mcd	2.0V	5.0V	35mA	105mW	.90	.67	.60
658-2155	777R	T-1	Orng.	Red D	3.0mcd	2.0V	5.0V	35mA	105mW	.68	.50	.45
658-2156	777R-1	T-1	Orng.	Red D	3.0mcd	2.0V	5.0V	35mA	105mW	.90	.67	.60
658-2160	950G†	T-1¾	Grn.	Grn. D	1.8mcd	2.4V	5.0V	30mA	120mW	.70	.57	.52
658-2165	984G	T-1	Grn.	Grn. D	2.0mcd	2.4V	5.0V	30mA	120mW	.68	.54	.50
658-2170	990G	T-1¾	Grn.	Grn. D	4.5mcd	2.4V	5.0V	30mA	120mW	.70	.57	.52
658-2175	995GT	T-1¾	Grn.	Grn.	6.5mcd	2.4V	5.0V	30mA	120mW	.88	.67	.62



INCANDESCENT FLATPACK DIGITAL DISPLAYS

These incandescent, flatpack digital displays offer unparalleled brightness and sharp contrast, coupled with a slim profile, seated depth of only .248" and less than .5" overall for minimum panel depth, volumetrically compact packaging, and long-life reliability. Ideally suited for applications where panel depth, wide-angle readability, high brightness and ease of installation are major design criteria. Choice of .472" or .614" high, 7-segment, tungsten filament characters, with decimal point. The FFD-11 and FFD-41 are .472" high and the FFD-21 and FFD-51 are .614" high. AC, DC or pulsed mode operation: standard TTL driver/decoder compatible. Sharp contrast and excellent, 120° angular readability in high ambient lighting. Operating range of —55° to +70°C. Low power: 15 mA per segment at 5 VDC. Ruggedly designed for 100,000 hours average life expectancy; the FFD-41 and FFD-51 are 40,000 hours. The FFD-11 and FFD-41 use 1751 mounting hardware, the FF-21 and FFD-51 use 1753 mounting hardware; all available on next page. Easily installed, standard 14-pin (FFD-11, FFD-41), DIP package design. FFD-21, FFD-51, are 16-pin.

Stock No.	Mfr's Type	Filament Voltage Min.	Filament Voltage Nom.	Filament Voltage Max.	Filament Current Min.	Filament Current Nom.	Filament Current Max.	Brightness FT./L	Filament Voltage EF	Filament Current IF	EACH 1-9	EACH 10-99	EACH 100-Up
658-0900	FFD-11	...	5	...	13mA	15mA	17mA	4500	5 V	15 mA	5.88	4.70	4.00
658-0910	FFD-21	...	5	...	13mA	15mA	17mA	4500	5 V	15 mA	7.25	5.88	4.93
658-0920	FFD-41	3.5	5	5.3	26mA	30mA	34mA	13,000	5 V	30 mA	5.88	4.70	4.00
658-0930	FFD-51	3.5	5	5.3	26mA	30mA	34mA	13,000	5 V	30 mA	7.25	5.88	4.93

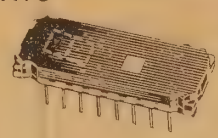
See Page 2 for the Allied Electronics Facility Nearest You

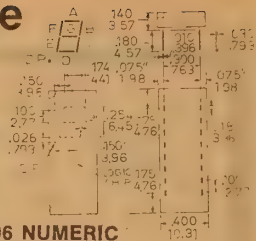
LED Digital Displays and Mounting Hardware

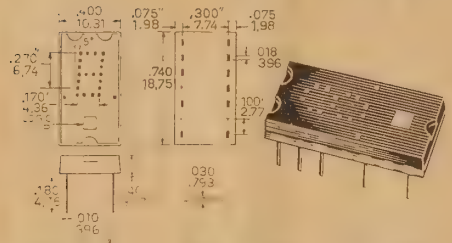
ALLIED STOCKS EVERY ITEM ON THIS PAGE! !

LIGHT EMITTING DIODE DIGITAL DISPLAYS







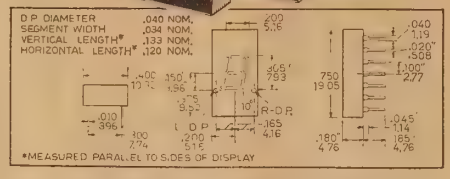


1707 HEXADECIMAL DISPLAY W/LOGIC

Solid-State with TTL circuit to accept, store and display 4-Bit binary data. 0.270" high (6.858mm) character. Left- and right-hand decimals. Separate LED and logic power supplies may be used. Internal TTL MSI chip with latch, decoder and driver. Operates from 5V or 6V supply. Constant-current drive for hexadecimal characters. Easy system interface. Can be operated in real-time mode or latched-update—only mode by use of latch strobe input. Use with mt. hardware 1750 and 1751 below. **See Ordering Table "A", below.**

ORDERING TABLE "A"

Stock No.	Mfr's Type	Color	Char. Ht.	EACH 1-9	EACH 10-99	EACH 100-Up
658-1000	1704	Red	.800"	4.98	3.98	3.38
658-1010	1705	Red	.270"	14.09	11.27	9.06
658-1020	1706	Red	.270"	14.09	11.27	9.06
658-1030	1707	Red	.270"	14.46	11.57	9.30
658-1050	1711	Red	.300"	2.05	1.64	1.39
658-1095	1724	Red	.630"	4.75	3.80	3.23
658-1100	1725	Red	.630"	4.75	3.80	3.23



1711 RED LED DIGITAL DISPLAY

Convenient .3" high, 7-segment characters. Reflectorized design. Low IC-compatible power requirements: V_f = 1.7V, I_f = 20mA. Std. 14-pin .3" common anode, DIP packaging; install in 2 to 8 digit multiples with mtg. hardware 1750 and 1751 below. Interchangeable with most .3" LEDs. D.P. dia. .040" nom., Segment width: .034" nom., Segment length (measured parallel to sides of display): .133" nom. vertical, .120" nom. horizontal. **See Ordering Table "A", left.**

OPTOELECTRIC CHARACTERISTICS @ 25°C

Characteristics	Min	Typ.	Max.	Units	Conditions
Luminous Intensity	250	500	.....	μed	1F=20mA
Forward Voltage	1.5	1.7	20	Volts	1F=20mA
Reverse Current	.....	10	.....	μA	VR=10V
Peak Wave Length	640	680	.....	.....	.....

ABSOLUTE MAX. RATINGS @ 25°C

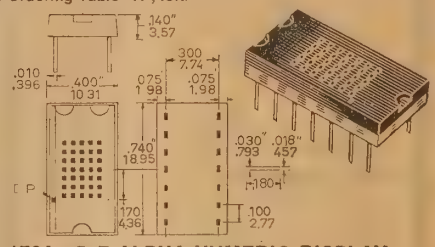
Description	Max. Ratings
Power dissipation	400mW
Operating and storage Temperature range	−20 to +85°C
Average forward current/segment or decimal pt.	25mA

1705, 1706 NUMERIC DISPLAY WITH LOGIC

Solid state with integral TTL MSI chip. Character height: 0.270" (6.85mm). Left decimal. Constant-current drive for LEDs, ⅛ power type logic. With latch, decoder, driver. **1705:** use where data to be displayed is the pulse count; with 18MHz counter. **1706:** for BCD display. Both use mtg. hardware 1750 and 1751 below. **See Ordering Table "A", left.**

1724, 1725 NUMERIC DISPLAY (Not Illus.)

Character height: 0.630". Right decimal point. Use with 1752 mtg. hardware below. **1724:** common anode. **1725:** common cathode. **See Ordering Table "A", left.**



1704 5x7 ALPHA-NUMERIC DISPLAY

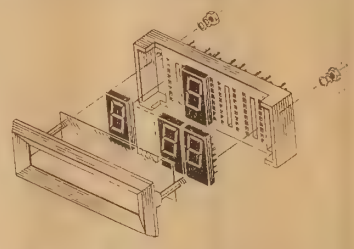
Solid state visible display with red transparent plastic encapsulation. 0.3" high (7.620mm) character 5x7 array with X-Y select and decimal. Compatible with USASCII and EBCDIC codes with appropriate decoding. Use with mtg. hardware 1750 and 1751 below. **See Ordering Table "A", left.**

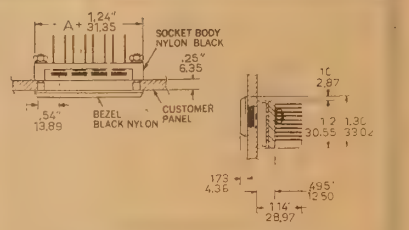
MOUNTING HARDWARE FOR LED DISPLAYS

MODEL 1750 AND 1751 MOUNTING HARDWARE

For any 14-16 pin DIP package with .3" row spacing. One-piece bezel. Series 23441 bezel assembly and socket assembly combined equal Model 1751. Series 22463 bezel and socket assembly combined equal Model 1750. Any standard 14 or 16 pin LED display automatically centers itself. Eliminates individual DIP sockets but allows easy removal of individual LEDs. Assembly consists of a black nylon bezel requiring a single rectangular panel cutout, a red circularly polarized viewing screen, and a universal socket body ready for wire wrap or PCB insertion. Oper. temperature: 0° to +70°C. Display brightness is inversely related to oper. temp. Max. natural air convection around the display should be provided. *Last two numbers in mfr's type are decades per assembly.

Construction: Viewing screen is a circular polarized red laminated cellulose acetate butyrate plastic which reduces unwanted reflections. The laminated screen construction consists of a linear polarized and a ¼-wave retardation plate. Bezel and socket bodies are glass-filled nylon. Socket contacts are tin plated phosphor bronze.





SERIES 23441 BEZEL ASSEMBLY ONLY

Used with Socket below to make 1751 hardware

Stock No.	Mfr's Type*	Color	EACH 1-9	EACH 10-99	EACH 100-Up
658-1180	23441-02	Red	3.88	3.10	2.64
658-1190	23441-02	Neutral	3.88	3.10	2.64
658-1200	23441-03	Red	4.13	3.30	2.81
658-1210	23441-03	Neutral	4.13	3.30	2.81
658-1220	23441-04	Red	4.38	3.50	2.98
658-1230	23441-04	Neutral	4.38	3.50	2.98
658-1240	23441-05	Red	4.75	3.80	3.23
658-1250	23441-05	Neutral	4.75	3.80	3.23
658-1260	23441-06	Red	5.00	4.00	3.40
658-1270	23441-06	Neutral	5.00	4.00	3.40
658-1280	23441-07	Red	5.25	4.20	3.57
658-1290	23441-07	Neutral	5.25	4.20	3.57
658-1300	23441-08	Red	5.50	4.40	3.74
658-1310	23441-08	Neutral	5.50	4.40	3.74

SERIES 22463 BEZEL ASSEMBLY ONLY

Used with Socket below to make 1750 hardware

658-1610	22463X-02	Red	3.50	2.80	2.38
658-1620	22463X-03	Red	3.75	3.00	2.55
658-1630	22463X-04	Red	4.00	3.20	2.72
658-1640	22463X-05	Red	4.25	3.40	2.89
658-1650	22463X-06	Red	4.50	3.60	3.06
658-1660	22463X-07	Red	4.88	3.90	3.32
658-1670	22463X-08	Red	5.13	4.10	3.49

SOCKET ASSEMBLY ONLY

658-1110	22464-02	...	4.13	3.30	2.81
658-1120	22464-03	...	5.38	4.30	3.66
658-1130	22464-04	...	6.63	5.30	4.51
658-1140	22464-05	...	7.88	6.30	5.36
658-1150	22464-06	...	9.13	7.32	6.21
658-1160	22464-07	...	10.38	8.30	7.06
658-1170	22464-08	...	11.63	9.30	7.91

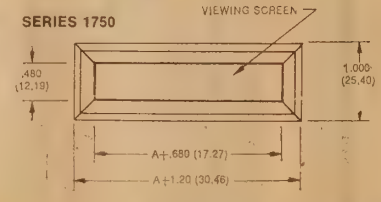
PHYSICAL DIMENSIONS

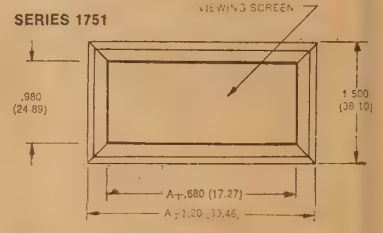
SERIES 1750/1751

Decades per Assembly	"A" (Centers between decades) In.	mm
1	N.A.	N.A.
2	0.500	12.70
3	1.00	25.40
4	1.500	38.10
5	2.000	50.80
6	2.500	63.50
7	3.000	76.20
8	3.500	88.90

SERIES 1752/1753

Decades per Assembly	"A" (Centers between decades) In.	mm
1	.72	18.29
2	.900	72.86
3	1.800	45 72
4	2.700	68.58
5	3.600	91 44
6	4.500	114.30
7	5.400	137 16
8	6.300	160.02





MODEL 1752 and 1753 MOUNTING HARDWARE

Similar to Series 1750 and 1751 at left (not illustrated).

- **Available in 1 Through 8 Digit Configurations**
- **One-piece Bezel**
- **Non-Glare Viewing Screen Increases Contrast Ratio and Eliminates Ambient Reflection**

Series 1752 and 1753 bezel and socket assemblies with 1.3" window accommodate character heights up to 1.1" with optimum, wide-angle viewing. Unitized assembly self-aligns with simple, "slip-on" installation. Available in 1 through 8 digit configurations. Non-glare red viewing screen increases contrast ratio and eliminates ambient reflection. Replaces individual DIP sockets, but allows easy removal of individual LED displays. Accommodates standard 14-, 16- and 18-pin DIP packaged LED or planar displays with .300" (model 1753) and .600" (model 1752) on-centers spacing; .900" c/c digit spacing. Attractive one-piece, molded bezel avoids unsightly seams and joints. *Last two numbers in manufacturer's type are decades per assembly.

SERIES 1752 COMPLETE BEZEL AND SOCKET ASSEMBLIES

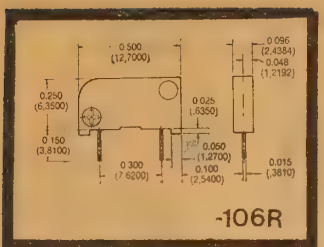
Stock No.	Mfr's Type*	EACH 1-9	EACH 10-99	EACH 100-Up
658-1410	1752X-01	9.25	7.40	6.29
658-1420	1752X-02	11.25	9.00	7.65
658-1430	1752X-03	13.38	10.70	9.10
658-1440	1752X-04	15.38	12.30	10.46
658-1450	1752X-05	17.50	14.00	11.90
658-1460	1752X-06	19.50	15.60	13.26
658-1470	1752X-07	22.00	17.60	14.96
658-1480	1752X-08	24.50	19.60	16.66

SERIES 1753 COMPLETE BEZEL AND SOCKET ASSEMBLIES

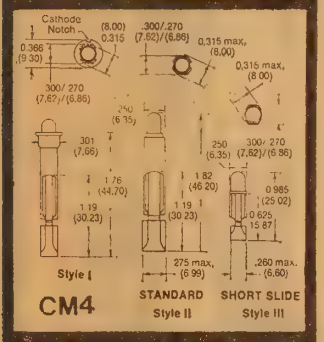
Stock No.	Mfr's Type*	EACH 1-9	EACH 10-99	EACH 100-Up
658-1510	1753X-01	9.25	7.40	6.29
658-1520	1753X-02	11.25	9.00	7.65
658-1530	1753X-03	13.38	10.70	9.10
658-1540	1753X-04	15.38	12.30	10.46
658-1550	1753X-05	17.50	14.00	11.90
658-1560	1753X-06	19.50	15.60	13.26
658-1570	1753X-07	22.00	17.60	14.96
658-1580	1753X-08	24.50	19.60	16.66

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

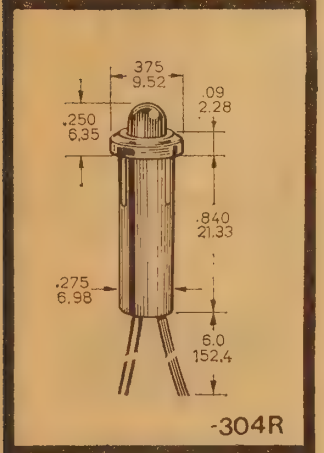
Indicator Lights



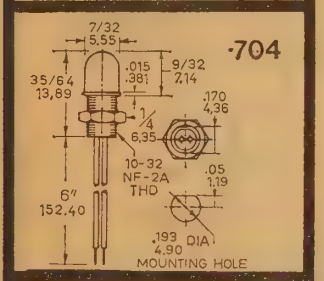
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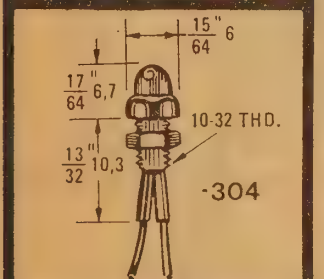
CM4



-304R

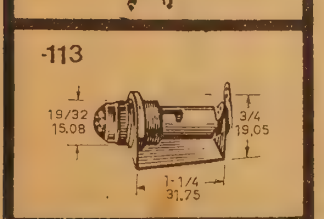


-704



-304

-113



SOLID-STATE STATUS/FAULT INDICATORS

Leads are tinned copper base alloy. Body: Polycarbonate. Pin spacing is .300", mounting centers: .100". Color: Red. *Requires external current limiting resistor.

Stock No.	Mfr's Type CM/D	Volt.	Current ma	EACH 1-9	EACH 10-Up
649-6300	6310-002-106R	1.7	40 max.*	2.33	1.70
649-6310	6311-002-106R	5.0	16	2.45	1.80

SOLID-STATE LED TELEPHONE SLIDE INDICATORS

Types 9531 and 9532. VDC: 48V, 12 ma. Intensity 2.4 mcd. Diffused. **Types 9541 and 9542.** VDC: 24V, 20 ma. Intensity 4.0 mcd. Diffused. **Types 9555 and 9556.** VDC: 10V, 35 ma. Intensity 70 mcd. Diffusion: Clear. Color: Red. *See drawings, left.

Stock No.	Mfr's Type	Style No.*	EACH 1-9	EACH 10-Up
649-9531	CM4-9531	1	4.35	2.50
649-9532	CM4-9532	2	4.35	2.50
649-9541	CM4-9541	1	4.35	2.50
649-9542	CM4-9542	2	4.35	2.50
649-9555	CM4-9555	2	4.35	2.50
649-9556	CM4-9556	3	4.35	2.50

SOLID-STATE "ULTRALITES" .20" ROUND INDICATORS

Push-in mounting. Mounts in 9/32" dia. hole. Panel thickness ¾" max. Mtg. centers ⅜" min. Body material is nylon with chrome bezel. Standard with 6" insulated leads; tinned, 24 ga., stranded. Current limiting resistors included. *Requires external current limiting resistor.

Stock No.	Mfr's Type	Volt.	Current ma	EACH 1-9	EACH 10-Up
649-6080	6080-900-304R	2.0	40 max.*	1.55	1.00
649-6085	6081-900-304R	5	16	1.78	1.17

SOLID-STATE "ULTRALITE" .30" ROUND INDICATORS

Similar to the .40" indicator, below, but smaller. Mechanical Dia.: lens 0.370", bezel 0.520", body 0.368". Mounts in any ⅜" dia. hole, Mtg. center 17/32" min. *Requires external current limiting resistor. †Wire terminal, ‡Solder lug. NOTE: Last letter in Mfr's type indicates color: R=Red, A=Amber, G=Green.

Stock No.	Mfr's Type	Volt.	Current ma*	EACH 1-9	EACH 10-Up
649-6320	6330-302-505R†	2.0	40 max.	2.93	1.92
649-6314	6330-002-505R‡	2.0	40 max.	3.08	2.00
649-6318	6330-301-505A†	2.0	40 max.	3.18	2.09
649-6312	6330-001-505A‡	2.0	40 max.	3.30	2.17
649-6322	6330-305-505G†	2.0	40 max.	3.18	2.09
649-6316	6330-005-505G‡	2.0	40 max.	3.30	2.17

SOLID-STATE "ULTRALITE" .40" ROUND INDICATORS

Spot size up to 13 mcd with .40" dia. spot. Push-in mtg. Mounts in ½" dia. hole. Panel thickness 1" max. Mtg. center ⅝" min. Body is nylon, chrome bezel. Leads: 22 ga. topcoated. †Wire terminals, ‡Solder lugs. *Requires external current limiting resistor. NOTE: Last letter in Mfr's type indicates color: R=Red, A=Amber, G=Green.

Stock No.	Mfr's Type	Volt.	Current ma	EACH 1-9	EACH 10-Up
649-6350	6340-302-505R†	2.0	40 max.*	2.93	1.92
649-6390	6342-302-505R†	5.0	40	3.18	2.09
649-6330	6340-002-505R‡	2.0	40 max.*	3.08	2.00
649-6335	6342-002-505R‡	5.0	40	3.30	2.17
649-6345	6340-301-505A†	2.0	40 max.*	3.18	2.09
649-6385	6342-301-505A†	5.0	40	3.43	2.25
649-6325	6340-001-505A‡	2.0	40 max.*	3.30	2.17
649-6375	6342-001-505A‡	5.0	40	3.58	2.34
649-6355	6340-305-505G†	2.0	40 max.*	3.18	2.09
649-6395	6342-305-505G†	5.0	40	3.43	2.25
649-6340	6340-005-505G‡	2.0	40 max.*	3.30	2.17
649-6380	6342-005-505G‡	5.0	40	3.58	2.34

OPEN-TYPE BAYONET INCANDESCENT LIGHT HOLDER

Miniature bayonet socket for T-3¼ lamp. Requires 11/16" dia. mtg. hole in panels up to ¼" thick. Lamp not included.

Stock No.	Mfr's Type	Lens Color	EACH 1-9	EACH 10-Up
616-0400	5050-101-113	Red	2.42	1.92
616-0410	5050-101-113	Green	2.42	1.92
616-0420	5050-101-113	Amber	2.42	1.92

SUBMINIATURE INDICATOR LIGHTS

Mounts from front of panel in .193" clearance hole; 5/32" max. panel thickness. Sealed, moisture and dustproof; T-1 bulb is permanently enclosed. High impact translucent plastic cap. Stovepipe style lens. Wire leads. Anti-rotation construction. Rating: 5 volts at .06 A (60,000 hours life). Conforms to MIL-L-3661B and Drawing MS25446.

Stock No.	Mfr's Type	Lens Color	EACH 1-9	EACH 10-Up
616-2700	6026-001-704R	Red	5.84	4.64
616-2710	6026-001-704G	Green	5.84	4.64
616-2720	6026-001-704A	Amber	5.84	4.64

SOLID-STATE LED SUBMINIATURE INDICATOR LITES

Viewing angle is 60°. Termination: leads—two #26 AWG stranded copper wires with .008" thick 105° PVC insulation, 6" lg., stripped and tinned ¼". Forward voltage: 2.1 VDC red; 2.6 VDC, green and yellow. Reverse voltage 4 VDC max.

Stock No.	Mfr's Type	Color	EACH 1-9	EACH 10-Up
616-2750	6039-004-304	Green	2.58	1.74
616-2754	6039-004-304	Red	2.58	1.74
616-2758	6039-004-304	Yellow	2.58	1.74

LED CARTRIDGE INDICATORS

Two, transparent cap styles, * short cylindrical and † round, with internal fresnel ring pattern optimum 180° visibility. LED color is red. NOTE: substitute following numbers for "X" to indicate cap color: 1-Red, 5-white and 7-clear. Pins: stainless steel. All cartridges are polarized and have a built-in resistor included.

Stock No.	Mfr's Type CM44-	Volts	Current mA @ rated V	Oper. DC Volts	EACH 1-9	EACH 10-Up
616-475X	11-002-X*	5	20	2.5-7	2.58	1.63
616-476X	11-010-X*	28	20	10-30	2.58	1.63
616-477X	21-002-X†	5	20	2.5-7	2.58	1.63
616-478X	21-010-X†	28	20	10-30	2.58	1.63

INCANDESCENT CARTRIDGE INDICATOR LAMPS

Versatile T-1¾ incandescent cartridge indicators feature two polycarbonate lens (flush and short cylindrical). Pin terminals. §Flush, translucent lens. #Short cylindrical, transparent lens, **Short cylindrical, translucent lens. NOTE: substitute number for "X" to indicate lens color: 1-red, 2-green, 3-amber, 4-blue, 5-white, 6-yellow and 7-clear.

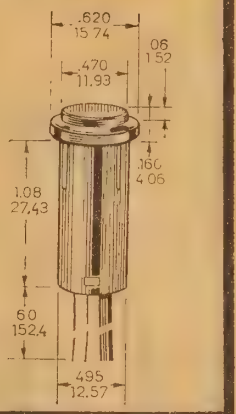
Stock No.	Mfr's Type	Amps	Volt	EACH 1-9	EACH 10-Up
616-820X	CML54027X§	.04	6.3	2.59	2.05
616-821X	CML54007X§	.014	10	2.81	2.23
616-822X	CML54028X§	.08	14	2.59	2.05
616-823X	CML54011X§	.04	28	2.16	1.72
616-824X	CML54040X§	.04	28	2.30	1.83
616-825X	CML63027X#	.04	6.3	2.57	2.05
616-826X	CML63007X#	.014	10	2.81	2.23
616-827X	CML63028X#	.08	14	2.59	2.05
616-828X	CML63040X#	.04	28	2.30	1.83
616-829X	CML63011X#	.04	28	2.16	1.72
616-830X	CML64027X**	.04	6.3	2.59	2.05
616-831X	CML65007X**	.014	10	2.81	2.23
616-832X	CML64028X**	.08	14	2.59	2.05
616-833X	CML64040X**	.04	28	2.30	1.83
616-834X	CML64011X**	.04	28	2.16	1.72

ULTRAMINIATURE CARTRIDGE HOLDERS FOR ABOVE CARTRIDGES

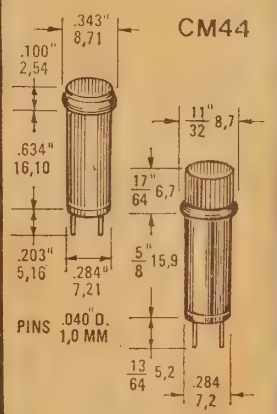
Mounts from rear panel in ⅜" dia. hole; mtg. centers: 21/32" min.; 7/32" max. panel thickness. Screw-on collar to retain cartridge. Cadmium plated spring brass terminals except solder cup type which is tintilated spring brass and turret type which is gold plated spring brass. Insulation: Phenolic. Types 10204-1, 10203-1 and 10202-1 are cartridge lampholders. Type CM21-3 is a cartridge connector. Type CM21-8 is a PC connector and Type CML 10380 is a cartridge mtg. clip.

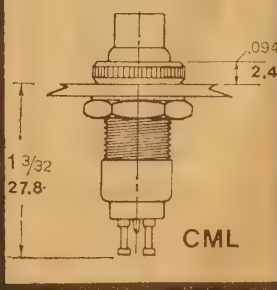
Stock No.	Mfr's Type	Terminals	EACH 1-9	EACH 10-Up
616-4810	10204-1	Flat lugs	1.57	1.25
616-4820	10203-1	Solder cup	2.22	1.76
616-4840	10202-1	Turret	2.22	1.76
616-4850	CM21-3	Solder	.59	.47
616-4860	CM21-8	PC	.59	.47
616-4870	CML 10380	.....	.15	.11

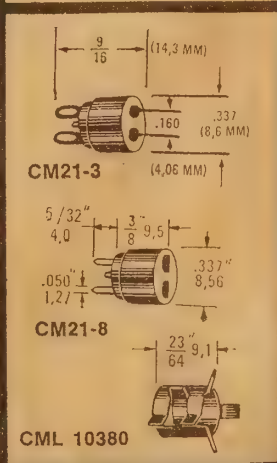
-505



One LED or incandescent cartridge plus lampholder needed for complete assembly



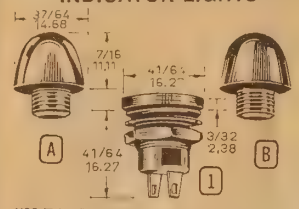




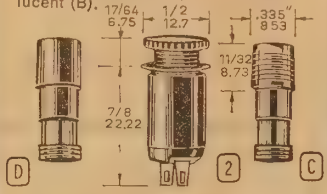
5

Indicator Lights

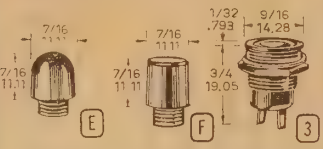
"M.F." MIDGET FLANGED INDICATOR LIGHTS



"M.F." Waterproof Military MIL-STD-202 and MIL-L-3661B. Waterproof 15 lb/sq. in.; with Neoprene "O" rings. Transparent (A); translucent (B).

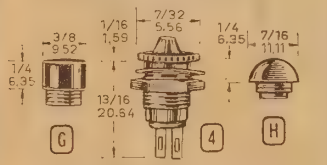


Easy Mount "M.F." Mount from rear panel. Only one nut to secure. Incand. Fresnel lined lens (C) or translucent lens (D).



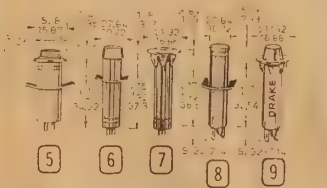
"M.F." Military Incandescent. Front mount with aluminum black anodized body. Both lugs are insulated. Lamps not included. **Specify Color:** B, C, G, R, W or Y. *Indicates conforms to MIL-L-3661B. MIL units as follows: Fig. 3 is LH73/1, Fig. E is LC12★T2, Fig. F is LC29★N2-transparent and LC29★T2-translucent.

"TINYLITES" MIDGET SCREW BASE



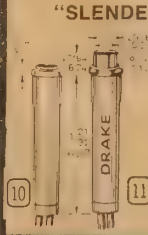
Economical, high quality; front replaceable lamp included; mounts from front panel. 3 voltages. U.L. Recognized. **Specify colors:** b,c,g,r,w, or y.

"GLO-LITES"



*One-piece nylon body, lens: built-in, Hi-Brite neon lamp, resistor. Mounts in 3/8" or 1/2" hole; Tinnerman nut or snap-in chrome plug bottom. Two 22 ga. 10" long wire leads or solder and quick connect lugs. Colors: red, white and amber. UL recog.

"SLENDER "GLO-LITES"



This versatile "glo-lite" permits designers true latitude in creating attractive front panels. 10" leads. White nylon, press-fit housing, chrome or plastic bezel mt. in 9/16" dia. hole; 7/16" ctrs. Lenses transparent. Colors clear, red, white, and amber. UL recog.

HOW TO ORDER:

SELECT INDICATOR BY PHOTO CODE NUMBER AND TABLE BELOW. COMPLETE STOCK NUMBER FOR LENS. Fill in the X in Stock number for Lens color, using the digits in this color code: **Amber (yellow) (a) = 1; Blue (b) = 2; Clear (c) = 3; Green (g) = 4; Red (r) = 5; White (w) = 6.** Picture captions show the colors available in each type. **Note: Blue and Green Not Available With Neon.**

MIDGET FLANGED

Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-551X	5139-038-403	1-A	0-28	Incand.	3/4	7/32	4.50	3.57	2.98
616-552X	5139-038-404	1-B	0-28	Incand.	3/4	7/32	4.50	3.57	2.98
616-561X	5154-036-804	2-D	0-28	Incand.	9/16	1/8	2.92	2.32	1.93
616-562X	5154-036-833	2-C	0-28	Incand.	9/16	1/8	2.92	2.32	1.93
616-531X	*5131-038-304	3-E	0-28	translucent	3/4	17/64	3.03	2.41	2.01
616-532X	*5131-038-604	3-F	0-28	translucent	3/4	17/64	3.03	2.41	2.01
616-536X	*5131-038-603	3-F	0-28	transparent	3/4	17/64	3.03	2.41	2.01

TINYLITES—MIDGET SCREW

Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-501X	5126-022-204	4-H	7	Incand.	19/32	1/4	2.25	1.78	1.49
616-502X	5126-022-604	4-G	7	Incand.	19/32	1/4	2.25	1.78	1.49
616-511X	5127-022-204	4-H	14	Incand.	19/32	1/4	2.25	1.78	1.49
616-512X	5127-022-604	4-G	14	Incand.	19/32	1/4	2.25	1.78	1.49
616-521X	5128-022-204	4-H	28	Incand.	19/32	1/4	2.84	2.25	1.88
616-522X	5128-022-604	4-G	28	Incand.	19/32	1/4	2.84	2.25	1.88

MINIATURE BAYONET

Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-204X	5201-222-306	13-J	0-120	Incand.	31/32	13/32	2.56	2.03	1.69
616-206X	5201-222-326	13-L	0-120	Incand.			2.56	2.03	1.69
616-203X	5201-222-307	13-K	0-120	Incand.			2.56	2.03	1.69
616-207X	5201-222-606	13-M	0-120	Incand.			2.56	2.03	1.69
616-205X	5201-222-607	13-N	0-120	Incand.			2.56	2.03	1.69
616-216X	5201-223-306	14-J	0-120	Incand.			2.81	2.23	1.86
616-219X	5201-223-326	14-L	0-120	Incand.			2.81	2.23	1.86
616-218X	5201-223-307	14-K	0-120	Incand.			2.81	2.23	1.86
616-220X	5201-223-606	14-M	0-120	Incand.			2.81	2.23	1.86
616-215X	5201-223-607	14-N	0-120	Incand.			2.81	2.23	1.86
616-239X	5201-242-303	13-J¶	120/240	Neon(100K)			2.89	2.30	1.92
616-241X	5201-242-323	13-L¶	120/240	Neon(100K)			2.89	2.30	1.92
616-242X	5201-242-603	13-M¶	120/240	Neon(100K)			2.89	2.30	1.92
616-249X	5201-243-303	14-J¶	120/240	Neon(100K)			3.18	2.52	2.10
616-251X	5201-243-323	14-L¶	120/240	Neon(100K)			3.18	2.52	2.10
616-252X	5201-243-603	14-M¶	120/240	Neon(100K)			3.18	2.52	2.10
616-072X	5100-822-326	12-L	0-120	Incand.			2.30	1.83	1.53
616-071X	5100-822-307	12-K	0-120	Incand.			2.30	1.83	1.53
616-073X	5100-822-607	12-N	0-120	Incand.			2.30	1.83	1.53

FLUSHLITES

Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-355X	6103-000-924	15	120	Neon(25K)	1 1/2	11/32	1.71	1.46	1.22

GEMLITES
T-1 Sub-Midget Flanged

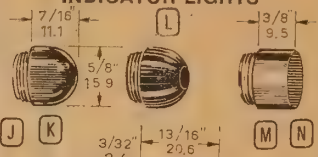
Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-110X	5160-458-604	16	0-28	Incand.	15/32	1/32	4.58	3.57	2.98

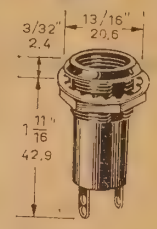
NEON †#

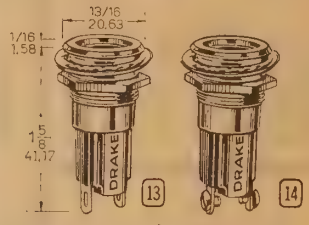
Stock No.	Mfr's Type	Fig. Code	Volts	Desc.	Min. Ctrs.	Max. Panel Thk.	EACH 1-9	EACH 10-24	EACH 25-Up
616-305X	6053-000-023	17	120	Neon(33K)	1/8	5/64	2.08	1.65	1.38
616-315X	6063-001-534	5**	120	Neon(25K)	17/32	13/16	1.60	1.37	1.14
616-316X	6063-001-634	6**	120	Neon(25K)	17/32	1 1/8	1.60	1.37	1.14
616-325X	6065-001-534	5**	250	Neon(100K)	17/32	13/16	1.60	1.37	1.14
616-326X	6065-001-634	6**	250	Neon(100K)	17/32	1 1/8	1.60	1.37	1.14
616-330X	6073-000-534	7§	120	Neon(25K)	11/16	5/64	1.82	1.56	1.30
616-331X	6073-000-634	9§	120	Neon(25K)	11/16	5/64	1.82	1.56	1.30
616-335X	6073-001-534	7**	120	Neon(25K)	11/16	5/64	1.71	1.46	1.22
616-336X	6073-001-634	9**	120	Neon(25K)	11/16	5/64	1.71	1.46	1.22
616-345X	6075-001-534	7**	250	Neon(100K)	11/16	5/64	1.71	1.46	1.22
616-346X	6075-001-634	9**	250	Neon(100K)	11/16	5/64	1.71	1.46	1.22
616-361X	6243-000-596	8§	120	Neon(22K)	...	3/4	1.52	1.20	1.00
616-365X	6243-001-596	8**	120	Neon(22K)	...	3/4	1.43	1.14	.95
616-371X	6245-001-596	8**	250	Neon(100K)	...	3/4	1.89	1.62	1.35
616-381X	6483-001-583	10§§	120	Neon(33K)	7/16	...	2.08	1.78	1.48
616-385X	6483-401-503	11§§	120	Neon(33K)	7/16	...	2.08	1.78	1.48
616-391X	6493-001-583	10.#	120	Neon(33K)	7/16	...	2.00	1.72	1.43
616-395X	6493-401-603	11-#	120	Neon(33K)	7/16	...	2.00	1.72	1.43

*Military Indicator lights. †For Neon types, value of built-in resistor is indicated. #Neon types not available with blue or green lens.
**Wire Terminal, §Solder Terminal. §§Chrome bezel, ##Plastic
¶Use B1A lamp for 120 VAC. Use B2A lamp for 250 VAC.

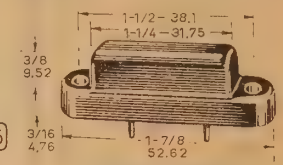
DELUXE MOLDED INDICATOR LIGHTS





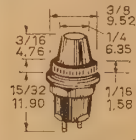


"Deluxe Molded" indicator lights for assured dependability and fine appearance. Min. Bay. incand. and neon lamps T-2½ or T-3¼ (not incl.). Fig. J, L, M are transparent, K and N are translucent. Neon units have built-in resistor. Solder or screw lugs; phenolic housing; polished chrome finish. Mount units and install lamps from front panel. Colors: b, c, g, r, w, or a. **#Blue and Green Not Available With Neon.**



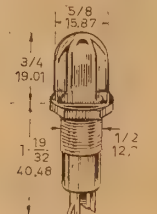
"FLUSHLITES"

"One of a Kind" with a rectangular nylon housing, built-in neon lamp with 25k resistor. **Specify colors:** a, r, or w. U.L. recognized.



"GEMLITES"

The flat face lens is ideal for legend applications. Mtg. bushing is double flatted for non-turn mtg. Housing is threaded, lock washer and nut are supplied. Mtg. hole: 5/16" dia., centers 15/32" min. Takes T-1 sub-midget flanged lamp. (not incl.). Colors: amber, blue, white, green and red.

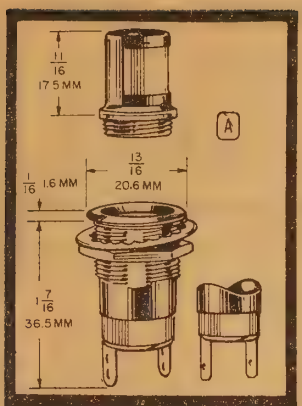


"POSTLITES"

Unique all transparent polystyrene high brightness neon indicator light with built-in resistor. Extremely clean, decorative lines; rugged and fully functional. Front panel mtg. Colors: amber, clear and red.

See Page 2 for the Allied Electronics Facility Nearest You

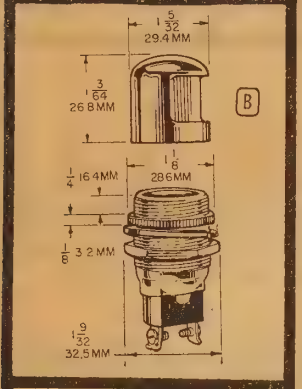
Indicator Lights



A MINIATURE INSTRUMENT PANEL LIGHTS

Series 900. Rugged devices for instrument panel illumination. Lamp extends out beyond face of panel for maximum illumination. Slip-fit hoods rotate for easy light direction. Black hoods have highly reflective aluminum inner surface. Neoprene gaskets on hood and holder; lexan polycarbonate window provides splash-proof design. Mount from front in 11/16" dia. "D" hole (0.657-.663" across flats). Max. panel thickness: 13/32". Accept miniature bayonet lamps, T-2½ or T-3¼ incand., 2-120 V. Black anodized aluminum bushing. Colorless window.

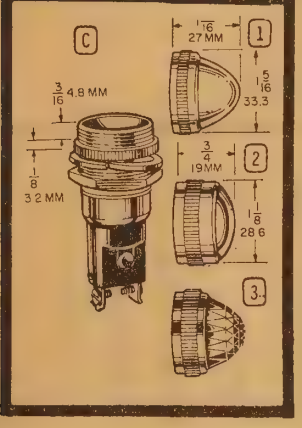
Stock No.	Mfr's Type	Terminals	EACH 1-9	EACH 10-Up
616-3975	900-224	Solder	5.09	4.04
616-3980	900-228	Quick-Connect	5.09	4.04



B INSTRUMENT PANEL LIGHT

Series 900. Provides intense localized light for illumination of panel instruments. Friction fit hood may be rotated to any desired position after holder is installed. Mounts in 1" dia. hole from front or back of panel; lamps are easily replaceable from front. Panel thickness: ½" maximum. Accepts C-7 or S-6 candelabra screw lamp. Nickel plated brass bushing; phenolic insulation; chromed hood.

Stock No.	Mfr's Type	Terminals	EACH 1-9	EACH 10-Up
616-3970	900-006	Screw	4.30	3.41



C LARGE LENS INDICATOR LIGHTS

Series 5780. Mount in 1" dia. hole. 1" or 1¼" diameter lens for exceptional front and side lighting. Accepts incandescent candelabra screw, 6-120V. (125 V). Screw-on lenses; lamps replaceable from front. Panel thickness: ⅜" max. U.L. and C.S.A. listed for 75W, 125V operation. Molded phenolic housing; nickel plated brass body; polycarbonate lens; chrome plated brass bezel. *indicates frosted back; † matted back. **Lens Color.** Fill in the X in Stock number for lens color, using this code: incandescent 5=red, 1=yellow, 4=green, 2=blue, 6=white or 3=colorless. Solder terminals.

Stock No.	Mfr's Type	Lens Style	EACH 1-9	EACH 10-Up
616-295X	5786-523-105	2*	5.68	4.50
616-296X	5786-523-416	3	5.68	4.50
616-297X	5789-523-430	1†	6.66	5.29

"TITELITES"

Series 5790. Splash-proof version of Series 5780 with two neoprene gaskets and octagonal nut for lens-to-body and body-to-panel sealing. Fill in X in Stock no. for lens color — see below left. *Indicates frosted back.

Stock No.	Mfr's Type	Lens Style	EACH 1-9	EACH 10-Up
616-298X	5796-523-105	2*	5.96	4.73
616-299X	5796-523-416	3	5.96	4.73

D INCANDESCENT INDICATOR LIGHT ASSEMBLIES

Mounts in 11/16" diameter hole; 5/16" max. panel thickness. Accepts T-2 PSB lamp (not included); 6-120 VAC. Screw-in lens. Solder terminals. Translucent stovepipe lens.

Stock No.	Mfr's Type	Lens Color	EACH 1-9	EACH 10-Up
616-2810	5201-492-307R	Red	3.09	2.45
616-2820	5201-492-307G	Green	3.09	2.45
616-2830	5201-492-307A	Amber	3.09	2.45

E INSULATED INDICATOR LIGHTS

Series 5131-038. Mount in 15/32" hole. Front of panel insertion with fixed flange. 180° visibility. Accept T-1 ¾ lamps; 1.35-28 V. Phenolic insulation. Anti-rotation design.

TRANSPARENT LENS TYPE

Stock No.	Mfr's Type 5131-038-	MIL MS-25256-	Lens Color	EACH 1-9	EACH 10-Up
616-5355	303R-I/L	6	Red	3.03	2.41
616-5354	303G -I/L	4	Green	3.03	2.41
616-5351	303A -I/L	2	Amber	3.03	2.41
616-5353	303C -I/L	8	Clear	3.03	2.41
616-5356	303W-I/L	10	White	3.03	2.41
616-5352	303B -I/L	12	Blue	3.03	2.41

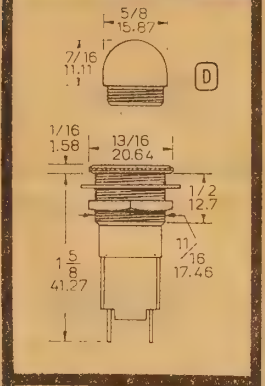
TRANSLUCENT LENS TYPE

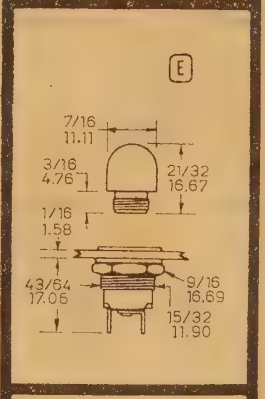
616-5358	304R -I/L	**	Red	3.03	2.41
616-5357	304G -I/L	**	Green	3.03	2.41
*616-5359	304A -I/L	*	Amber	3.03	2.41

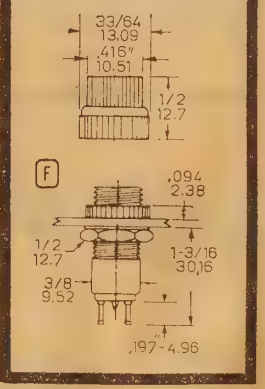
F PERMANENT NEON INDICATOR LIGHTS

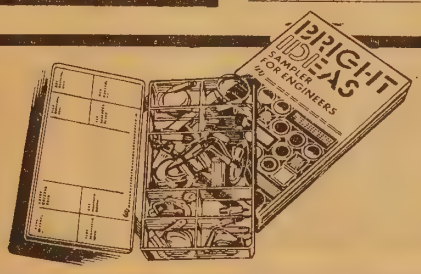
Ultraminiature lights mount from rear in ⅜" hole; 5/16" max. panel thickness. 105-125 V AC-DC. Standard brightness with built-in 100k resistor. Turret term. Cylindrical lens.

Stock No.	Mfr's Type	Lens Color	EACH 1-9	EACH 10-Up
616-6030	6182-100-603R	Red	3.74	2.97
616-6035	6182-100-603A	Amber	3.74	2.97
616-6040	6182 100-603W	White	3.74	2.97









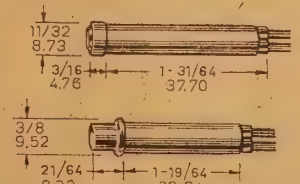
BRIGHT IDEAS ENGINEER'S KIT

Indicator Light Sampler for the Inventive Engineer

Here's a handy compartmented plastic box filled with indicator lights you can use for building prototypes and to stimulate ideas for future projects. You get twenty-four complete indicator and pilot lights, all different. Sixteen styles, seven colors, five voltages and five mounting-hole sizes. Incandescents, neons, solid-state units. Wire leads and solder terminal types. (6V Incandescent Glo-Dot, 24-28V Incandescent Glo-Dot, 12-14V Incandescent Glo-Dot Omni-Glo, 12-14V Incandescent Tiny-Mite, 105-125VAC Neon Omni-Glo, Glo-Dot Line-O-Lite, 250V Neon Omni-Glo, 120V Incandescent Mini-Slide, 6V, 12V, 28V Solid-State Glo-Dot).

679-1000 ..... **Each 10.00**

GLO-DOT MINIATURE NEON PILOT LIGHTS

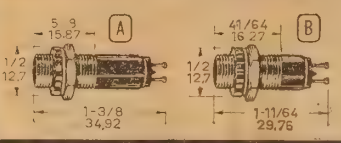


These miniature neon pilot lights are engineered for long service reliability. Rugged, unaffected by shock and vibration. Two lens shapes, †flush and *high-hat which are available in four colors; red, amber, white and clear. Mounting hole is 5/16" diameter. Equipped with 4½" wire leads stripped ½". Av. operating life: 10,000 hours. UL recognized and CSA approved. 120 VAC.

Stock No.	Mfr's Type	Lens Color	VAC	EACH 1-49	EACH 50-99	EACH 100-Up
679-6400	2150A1*	Red	120	1.17	1.09	.94
679-6405	2150A3*	Amber	120	1.17	1.09	.94
679-6410	2150A4*	White	120	1.17	1.09	.94
679-6415	2150A2*	Clear	120	1.17	1.09	.94
679-6611	2110A1†	Red	120	1.10	1.02	.88
679-6613	2110A3†	Amber	120	1.10	1.02	.88
679-6615	2110A4†	White	120	1.10	1.02	.88
679-6617	2110A2†	Clear	120	1.10	1.02	.88

Lamps, Lights, Lenses and Housings

CARTRIDGE LIGHT HOUSINGS



Cartridge housing accepts either standard pilot lamps or indicator lamps, below. Made of black anodized alum. per MIL-A-8625, base insulation of molded phenolic. Withstand environmental requirements of MIL-STD-202B as prescribed in MIL-L-3661A. Rated at 250V; max. current, 1A. Breakdown voltage, 1000V rms at 60 Hz. Easily installed from rear of panel with lockwasher and hex nut. *Solder lugs; others turrent lugs. Wt. 10 oz.

A FOR PILOT LIGHTS

Stock No.	Mfr's Type	Size, DxL In.	Size, DxL (mm)
937R3620	SM-2/300950	½x1⅜	12.7x34.9
937-3625	SM-2A/300960	½x1⅜	12.7x34.9

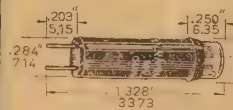
B FOR INDICATOR LIGHTS

Stock No.	Mfr's Type	Size, DxL In.	Size, DxL (mm)
937-3600	SM-1/300970	½x1 11/64	12.7x29.7
937-3605	*SM-1A/300980	½x1 11/64	12.7x29.7

PRICES FOR ALL AT LEFT

EACH 1-9	10-99	100-499	500-Up
2.29	1.37	1.15	.93

CARTRIDGE LAMPS



Black anodized metal sleeves. Clear ends. Stainless steel, polished pins. Diameter: .290" (7.36mm). For housings, above. Wt. 1 oz.

PILOT LAMPS
(For Housings, above). Length: 1.110" (28.19mm) maximum, less pins.

Stock No.	Mfr's Type	Volts	Average Watts	Average Amps	EACH 1-9	10-99	100-499	500-Up
937-4010	31	12	2.0	.170	1.91	1.15	.96	.78
937-4080	51	28	1.1	.040	1.91	1.15	.96	.78
937-5050	71	60	3.0	.050	1.91	1.15	.96	.78
937-5060	81	120	3.0	.025	1.95	1.17	.98	.79

INDICATOR LAMPS
(For Housings, above). Length: 1.912" (48.56mm) maximum, less pins.

Stock No.	Mfr's Type	Volts	Av. Watts	Current Amperes Min.-Max.	EACH 1-9	10-99	100-499	500-Up
937-5905	905	5	.20	.035-.045	2.02	1.21	1.02	.82
937-5909	909	6	.24	.035-.045	2.02	1.21	1.02	.82
937-5918	918	12	.36	.035-.045	2.02	1.21	1.02	.82
937-5930	930	18	.72	.035-.045	2.02	1.21	1.02	.82
937-5933	933	24	.42	.015-.020	2.02	1.21	1.02	.82
937-5938	938	28	1.12	.035-.045	2.02	1.21	1.02	.82
937-5941	941	48	1.92	.035-.045	2.02	1.21	1.02	.82

CARTRIDGE LENSES FOR ABOVE HOUSINGS



Polycarbon lenses have high working temperature, no melting, distortion. Black anodized aluminum bezels. Special inner surface provides almost total peripheral vision. Dia., .505".

TRANSPARENT LENS

Stock No.	Type	Color
937-6140	301400	Amber
937R6142	301420	Red
937-6143	301430	Blue
937-6144	301440	Green
937-6141	301410	Clear

TRANSLUCENT LENS

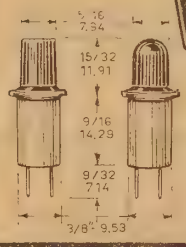
Stock No.	Type	Color
937-6145	301450	Yellow
937-6146	301460	White
937-6147	301470	Red
937-6148	301480	Blue
937-6149	301490	Green

PRICE CHART

EACH 1-9	10-99	100-499	500-Up
.83	.50	.42	.34

SUBMINIATURE WEDGE BASE LAMPS

NEW!



These lamps are for use with pilot light assemblies at right.

LAMPS

Stock No.	Mfr's Type	EACH 1-49	50-99	100-Up
679-4607	84	.69	.64	.55
679-4609	86	.63	.58	.50
679-4604	37	.47	.44	.38
679-4605	73	.47	.44	.38
679-4606	74	.47	.44	.38
679-4608	85	.58	.54	.46

PILOT LIGHT ASSEMBLIES

Rugged and reliable pilot light assembly utilizes minimal panel space. Two lens designs available. Type 4610 has .110" quick-connect tinned brass terminals. Ordering Information: The complete assembly consists of a socket (type no. 4610) and a lens. Order lamp from table at left.

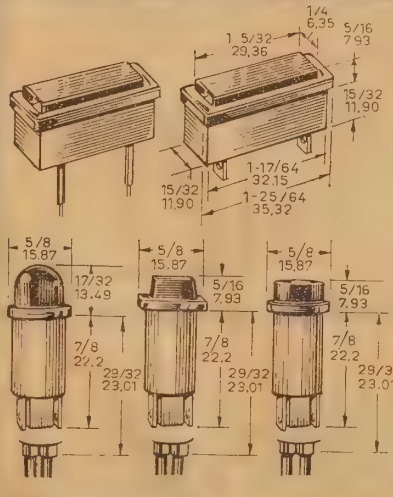
LENS STYLE *HEMISPHERICAL

Stock No.	Mfr's Type	Color (Desc.)	EACH 1-49	50-99	100-Up
679-4610	4610	Socket	.36	.33	.29
679-4621	4621	*Red	.34	.31	.27
679-4622	4622	*Clear	.34	.31	.27
679-4623	4623	*Amber	.34	.31	.27
679-4624	4624	*White	.34	.31	.27
679-4625	4625	*Green	.34	.31	.27
679-4626	4626	*Blue	.34	.31	.27
679-4627	4627	*Yellow	.34	.31	.27

LENS STYLE ‡FLAT TOP

Stock No.	Mfr's Type	Color (Desc.)	EACH 1-49	50-99	100-Up
679-4631	4631	‡Red	.34	.31	.27
679-4632	4632	‡Clear	.34	.31	.27
679-4633	4633	‡Amber	.34	.31	.27
679-4634	4634	‡White	.34	.31	.27
679-4635	4635	‡Green	.34	.31	.27
679-4636	4636	‡Blue	.34	.31	.27
679-4637	4637	‡Yellow	.34	.31	.27

NEON AND INCANDESCENT PILOT LIGHTS



Line-O-Lite 2330D, 2330QD Series Rectangular Neon Pilot Lights. Illuminated bars will snap-fit into panels .055"-.070" thick without speednut, and into other thicknesses with speednut. Mounting hole 1 9/32×395/400". Voltage 105-125 VAC. *With wire leads, §With .250" terminals. **Omni-Glow Series 1050C, 1050QC, 1050N, 1050QN, 1050A and 1050QA Series Pilot Lights.** Mounting hole ½" diameter. †With wire leads, ‡With .187" terminals. All terminal types are tinned for soldering convenience. 4½" wire leads are stripped ½".

RECTANGULAR NEON PILOT LIGHTS

Stock No.	Mfr's Type	Lens Color	VAC	EACH 1-49	50-99	100-Up
679-5001	2330QD1§	Red	120	1.23	1.14	.99
679-5005	2330D1*	Red	120	1.30	1.21	1.04
679-5015	2330D3*	Amber	120	1.30	1.21	1.04

PILOT LIGHTS WITH DOME LENSES

Stock No.	Mfr's Type	Lens Color	VAC	EACH 1-49	50-99	100-Up
679-5150	1050A1†	Red	120	1.12	1.04	.90
679-5160	1050A3†	Amber	120	1.12	1.04	.90
679-5170	1050A4†	White	120	1.12	1.04	.90
679-5155	1050QA1‡	Red	120	1.16	1.07	.92
679-5185	1050QA2‡	Clear	120	1.16	1.07	.92
679-5165	1050QA3‡	Amber	120	1.16	1.07	.92

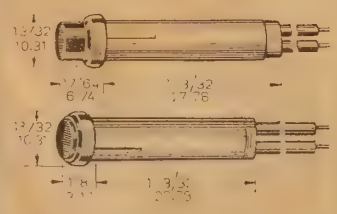
PILOT LIGHTS WITH HIGH-HAT LENSES

Stock No.	Mfr's Type	Lens Color	VAC	EACH 1-49	50-99	100-Up
679-5100	1050C1†	Red	120	1.12	1.04	.90
679-5130	1050C2†	Clear	120	1.12	1.04	.90
679-5110	1050C3†	Amber	120	1.12	1.04	.90
679-5120	1050C4†	White	120	1.12	1.04	.90
679-5105	1050QC1‡	Red	120	1.16	1.07	.92
679-5135	1050QC2‡	Clear	120	1.16	1.07	.92
679-5115	1050QC3‡	Amber	120	1.16	1.07	.92
679-5125	1050QC4‡	White	120	1.16	1.07	.92

PILOT LIGHTS WITH SQUARE LENSES

Stock No.	Mfr's Type	Lens Color	VAC	EACH 1-49	50-99	100-Up
679-6060	1050N1†	Red	120	1.20	1.12	.96
679-6090	1050N2†	Clear	120	1.20	1.12	.96
679-6070	1050N3†	Amber	120	1.20	1.12	.96
679-6080	1050N4†	White	120	1.20	1.12	.96
679-6065	1050QN1‡	Red	120	1.24	1.15	.99
679-6075	1050QN3‡	Amber	120	1.24	1.15	.99
679-6084	1050QN4‡	White	120	1.24	1.15	.99

INCANDESCENT "GLO-LITES"

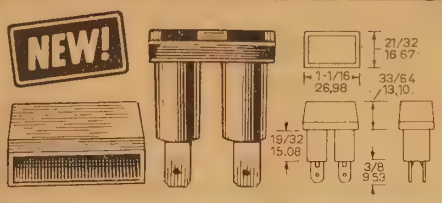


Compact, inexpensive, low voltage long life "Glo-lites" have white housings, translucent lenses, built-in 6.3, 14 or 28 volt incandescent lamp (T-1-¾). Press-fit ribbed housing fits tightly in .312"-.314" diameter hole. Chrome bezel makes for an attractive front-of-panel appearance. Ten-inch long leads supplied standard. Profile and flush lens types; profile is especially good for visibility from side. Available in a variety of colors, see table.

Stock No.	Mfr's Type	Lens Color	Lens Type	Volts	Amps	Avg. hrs. on AC	EACH 1-9	10-24	25-Up
616-3750	6386-001-607R	Red	Profile	6.3	0 20	50M	2.49	2.13	1.78
616-3760	6387-001-607R	Red	Profile	14 0	0.08	50M	2.52	2.16	1.80
616-3765	6387-001-607A	Amber	Profile	14.0	0.08	50M	2.52	2.16	1.80
616-3795	6388-001-607R	Red	Profile	28.0	0 04	7M	2.30	1.97	1.64
616-3800	6388-001-607G	Green	Profile	28.0	0 04	7M	2.30	1.97	1.64
616-3805	6388-001-607A	Amber	Profile	28 0	0 04	7M	2.30	1.97	1.64
616-3755	6387-001-507R	Red	Flush	14.0	0 08	50M	2.52	2.16	1.80
616-3770	6388-001-507R	Red	Flush	28.0	0.04	7M	2.30	1.97	1.64
616-3775	6388-001-507G	Green	Flush	28.0	0 04	7M	2.30	1.97	1.64
616-3780	6388-001-507A	Amber	Flush	28.0	0.04	7M	2.30	1.97	1.64
616-3785	6388-001-507B	Blue	Flush	28 0	0 04	7M	2.30	1.97	1.64
616-3790	6388-001-507W	White	Flush	28 0	0 04	7M	2.30	1.97	1.64

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Lamps, Lenses and Sockets

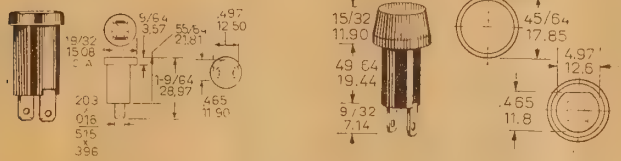


TWIN INDICATOR LIGHT ASSEMBLY

The flexibility of the twin light assembly allows two completely separate circuits, as well as two circuits with a common ground. Socket **Type 31351** has 2 contacts, both sides common. **Type 31352** has 3 contacts, one side common and **Type 31353** has 4 individual contacts.

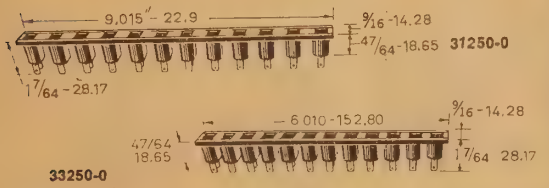
Stock No.	Mfr's Type	Description	EACH 1-4	5-9	10-49	50-Up
937-6180	30180-0	Lense, Red	.79	.48	.40	.32
937-6182	30182-0	Lense, Amber	.79	.48	.40	.32
937-6183	30183-0	Lense, White	.79	.48	.40	.32
937-6184	30184-0	Lense, Green	.79	.48	.40	.32
937-6185	30185-0	Lense, Blue	.79	.48	.40	.32
937-7051	31351	Socket, 2 contacts	1.83	1.06	.88	.71
937-7052	31352	Socket, 3 contacts	1.83	1.06	.88	.71
937-7053	31353	Socket, 4 contacts	1.83	1.06	.88	.71

INDICATOR SOCKETS (Single-Socket Type)



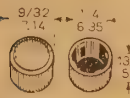
Type 30153-0. Round style indicator socket. Uses ESB type bulbs, below. For lenses see below. **Sold in packages of 10.** Wt. 1 lb.
937-6153. 1-4 ..... **Each 3.27** **5-9** ..... **Each 2.84** **10-Up** ..... **Each 2.38**

INDICATOR STRIP SOCKETS (12 Sockets per Strip)



Overall depth, 55/64" (less pins). Sockets are 47/64"x1/2" diameter. Uses ESB bulbs, below. Wt. 3 oz. **937-7250.** 31250-0. 1/2" center, alternate contacts.
1-9 ..... **Each 5.45** **10-99** ..... **Each 3.27**
100-499 ..... **Each 2.74** **500-Up** ..... **Each 2.22**

937-7350. 33250-0. 1/2" centers, individual contacts.
1-9 ..... **Each 5.45** **10-99** ..... **Each 3.27**
100-499 ..... **Each 2.74** **500-Up** ..... **Each 2.22**



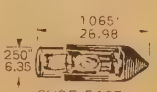
INDICATOR END COLOR CAPS

Profax and pyrex hard glass types. Profax for use below 1½ watts. For housings, this page. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Desc.	Color	BOX OF 10 1-4	5-9	10-49	50-Up
937-7801	38001-0	Profax	Red	1.73	1.48	1.25	1.01
937-7802	38002-0	Profax	Yel	1.73	1.48	1.25	1.01
937-7803	38003-0	Profax	Wht	1.73	1.48	1.25	1.01
937-7804	38004-0	Profax	Grn	1.73	1.48	1.25	1.01
937-7805	38005-0	Profax	Blue	1.73	1.48	1.25	1.01
937-7871	38071-0	Pyrex	Red	2.00	1.73	1.46	1.18
937-7872	38072-0	Pyrex	Yel	2.00	1.73	1.46	1.18
937-7873	38073-9	Pyrex	Wht	2.00	1.73	1.46	1.18
937-7874	38074-0	Pyrex	Grn	2.00	1.73	1.46	1.18

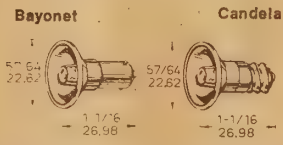
INDICATOR LAMPS

Long life, minimum 5000 hours. Electrical contact made with AMP connector 42197-2. T2 bulb. In Mfr's Type, final letter "B" indicates slide base.



Volts	Current (mA)	End Foot-Candles	Stock No.	Mfr's Type	BOX OF 10 1-4	5-9	10-49	50-Up
5.0	35-45	225	937-3715	5ESB	10.24	8.86	7.45	6.03
6.0	35-45	250	937-3725	6ESB	8.99	7.78	6.53	5.29
10.0	35-45	450	937-3775	10ESB	9.37	8.10	6.80	5.51
12.0	35-45	650	937-3810	12ESB	9.37	8.10	6.80	5.51
16.0	35-45	900	937-3910	16ESB	9.37	8.10	6.80	5.51
24.0	35-45	1100	937-3960	24ESB	9.37	8.10	6.80	5.51
24.0	15-20	200	937-3945	24CSB	9.76	8.44	7.09	5.74
28.0	35-45	1285	937-3985	28ESB	9.37	8.10	6.80	5.51
48.0	35-45	2000	937-4040	48ESB	10.50	9.08	7.63	6.18

ANNUNCIATOR LAMPS



High-brightness, long life lamps. Feature environmental reliability and 5000-hour life rating. Self-contained reflector speeds assembly. Miniature bayonet base or candelabra base. Shpg. wt. 2 oz.

MINIATURE BAYONET

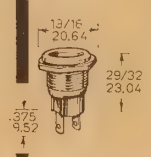
Stock No.	Mfr's Type	V	W	A
937-3830	12RB 35221-0	12	2.0	.170
937-5020	60RB 35227-0	60	3.0	.050
937-5200	120RB 35229-0	120	3.0	.025

CANDELABRA

937-5210	120RC 35128-0	120	3.0	.025

1-9 ..... **Each 2.38** **10-99** ..... **Each 1.43**
100-499 .. **Each 1.20** **500-Up** ... **Each .97**

UNIVERSAL PILOT LIGHT



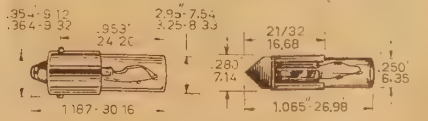
Type 30099-0. All metal parts nickel-plated. Rated 75 watts, 125 volts. U.L. Component-Program Recognized. Use AMP connector 42197-2, or leads can be soldered through holes in contacts. Length; 1 27/32". Maximum panel thickness, 13/32". Uses PSB type bulbs. Wt. 1 lb.
937-6098. 1-9 .. **Ea. 1.84** **10-99** .... **Ea. 1.10**
100-499 ..... **Ea. .93** **500-Up** ... **Ea. 75**

LENSES FOR PILOT LIGHT ASSEMBLIES

For above housing. **Sold in packages of 10 only.** *Jeweled Lenses. †Clear Lenses. ‡Opaque Lenses.

Stock No.	Mfr's Type	Color	EACH 1-4	5-9	10-49	50-Up
937-6100	30100-0*	Red	5.50	4.76	4.00	3.24
937-6102	30102-0*	Green	5.50	4.76	4.00	3.24
937-6106	30106-0*	Amber	5.50	4.76	4.00	3.24
937-6110	30110-0†	Red	3.10	2.68	2.25	1.82
937-6113	30113-0†	Blue	3.10	2.68	2.25	1.82
937-6112	30112-0†	Green	3.10	2.68	2.25	1.82
937-6111	30111-0†	Amber	3.10	2.68	2.25	1.82
937-6116	30116-0†	Clear	3.10	2.68	2.25	1.82
937-6130	30130-0‡	Red	3.10	2.68	2.25	1.82
937-6133	30133-0‡	White	3.10	2.68	2.25	1.82

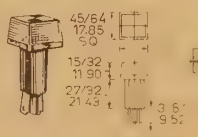
EXTENDED-SERVICE PILOT LAMPS



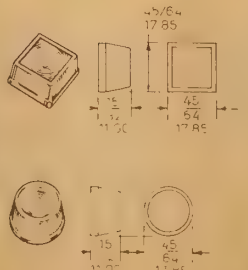
Slide Base Stock No.	Slide Base Type	Bayonet Base Stock No.	Bayonet Base Type	Volts	Av. Watts	Av. Amps	End Foot-Candles
937-3735	6PSB	.....	.....	6	.8	.140	800
937-3820	12PSB	.....	.....	12	2.0	.170	2400
937-3970	24PSB	.....	.....	24	1.7	.073	2200
937R3995	28PSB	.....	.....	28	1.1	.040	1900
937-4060	48PSB	.....	.....	48	2.5	.053	1500
937-5000	60PSB	.....	.....	60	3.0	.050	2400
937R5080	120PSB	937R5070	120MB	120	3.0	.025	1600

6-48V. 1-4 Boxes ..... **Each 9.37** **5-Up** ..... **Each 8.10**
60-120V. 1-4 Boxes ..... **Each 10.50** **5-Up** ..... **Each 9.08**

PANEL PILOT LIGHT SOCKET



Type 30152-0. Takes Series PSB slide base lamp, above. Black phenolic. UL Component Program Recognized. Lenses below.
937R6152. 1-9 ... **Each .72** **10-99** . **Each .43** **100-499** ..... **Each .36** **500-Up** ..... **Each .29**



LENSES FOR SOCKETS, ABOVE

Polycarbonate lenses for Type 30152 panel lamp socket, above. Two types of color caps are available for uses where easy coding of circuits is desired. Available in round and square types. For applications where the aesthetic value is critical and maximum illumination of the cap is desired. Four colors: red, amber, white and green. See table below. **Sold in boxes of 10.**

Color	ROUND LENS Stock No.	Type	SQUARE LENS Stock No.	Type
Red	937-6160	30160-0	937-6170	30170-0
Amber	937-6162	30162-0	937-6172	30172-0
White	.....	.....	937-6173	30173-0
Green	937-6164	30164-0	937-6174	30174-0

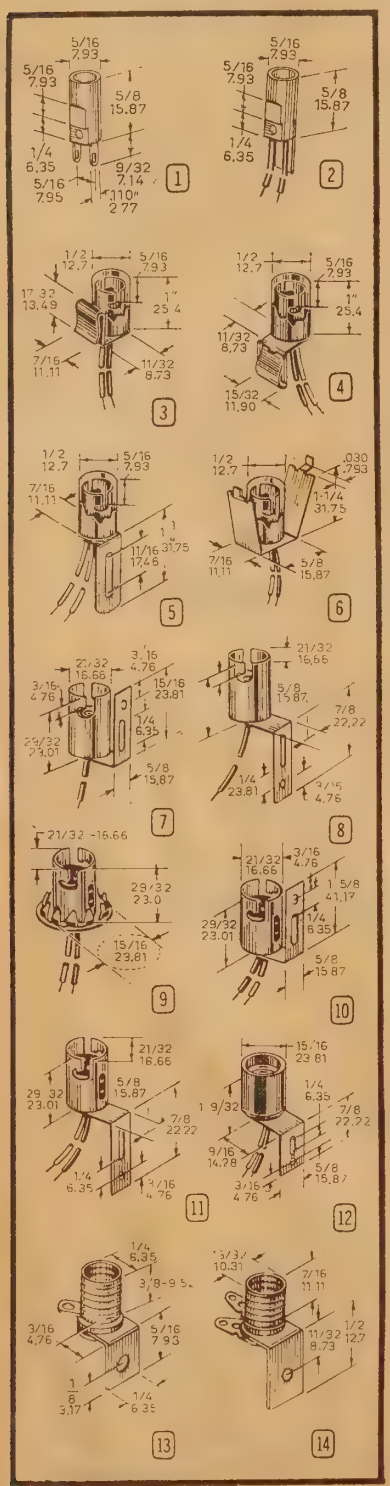
1-4 Boxes ..... **Each 2.25** **5-9 Boxes** ..... **Each 1.94**
10-49 Boxes ..... **Each 1.63** **50-Up** ..... **Each 1.32**

See Page 2 for the Allied Electronics Facility Nearest You

Light Sockets for Every Application

- Ultra-Compact
- Cost-Saving
- Space-Saving
- Stocked In-Depth
- Wide Variety of Sockets for Use in Home, Office, Industry . . . Anywhere!

The special socket you are looking for is probably an Allied standard. From this page you can pick out the light sockets best suited to your particular applications or products. We stock sockets that can be used for home, school, office or industrial applications—the possibilities are almost endless. These precision-made lamp holders are designed to fit minimum space requirements. Thorough testing and rigid inspections assure you of high quality and performance. Save both money and space by ordering from Allied. *Six* convenient stocking locations coast-to-coast let you count on fast, reliable delivery. Check the general speciifcations and diagrams below for the socket types you require.



SERIES 4772 "MIDGI-WEDG" MIDGET WEDGE BASE

For use where space is at a premium. Only ⅓ the size of miniature bayonet types; excellent for hard-to-illuminate areas. Lamps are held securely against shock and vibraton, yet are easy to install and remove; no twisting needed. Two brass lugs. Nylon housing. Tinned brass contacts. Accepts T-1¾" bulb. Without bracket. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0700	4772-001	1	1.01	.81	.50

SERIES 4777 "MIDGI-WEDG"

Same as 4772 above but with #24 (7x32) 6" tinned copper wire leads; insulated with .012" 105° PVC. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0725	4777-001	2	2.23	1.49	1.11

SERIES 4157 MINIATURE BAYONET

Sockets with insulated sleeves. .021" to .028" steel brackets with corrosion resistant plating. Built-in 10" long #22 stranded leads. U.L. rated at 105°C, PVC insulated. Accepts T-3¼, G-3½ or G-4½ bulb type. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0250	4157-018	3	1.59	1.27	.80
749-0265	4157-319	4	1.59	1.27	.80
749-0260	4157-314	5	1.59	1.27	.80
749-0255	4157-249	6	1.59	1.27	.80

SERIES 4345 CANDELABRA BAYONET

Single-contact socket. Has one 10" long #18 (16x30) lead, with .023" wall of PVC insulation. U.L. and C.S.A. rated at 60°C. Has .032" thick steel brackets with corrosion resistant plating. Accepts T-4½ bulb size. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0325	4345-011	7	2.33	1.49	1.11
749-0330	4345-312	8	1.59	1.27	.80

SERIES 4365 CANDELABRA BAYONET

Double-contact socket with 10" wire leads. Contacts in insulating bakelite disc, spring-loaded. #18 gauge (16x30) leads rated at 105°C. Rated 75 watts, 125 volts. Type 4365-034 snaps into 1⅝" hole. For incandescent and neon glow lamps such as G6, S6, C7 and NE-48. U.L. and C.S.A. Listed. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0355	4365-034	9	2.53	1.69	1.26
749-0350	4365-011	10	2.53	1.69	1.26
749-0360	4365-312	11	2.53	1.69	1.26

SERIES 4407 INTERMEDIATE SCREW

Wire leads. For incandescent and ozone as S6, S11. U.L., C.S.A. Listed. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0400	4407-312	12	1.60	1.26	.85

SERIES 4006 MIDGET SCREW

Solder terminals, tinned for easy connection. For G-2, T-1¾ lamps. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0100	4006-308	13	2.23	1.49	1.11

SERIES 4061 MINIATURE SCREW

Solder terminals, tinned. For low-voltage incandescent lamp applications. .021" to .028" thick brackets; corrosion resistant plating. For T-3¼, TL-3, G-3½ lamps. *Long vertical bracket. Wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0135	4061-314	*	1.06	.85	.53
749-0125	4061-063	14	1.06	.85	.53
749-0130	4061-072	15	1.06	.85	.53

SERIES 4301 CANDELABRA SCREW

Tinned solder terminals. .021" to .028" steel brackets with corrosion resistant plating. For G6, S6 lamps. Wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0300	4301-314	17	1.60	1.26	.85

SERIES 4151 MINIATURE BAYONET

Insulated brackets. Terminals tinned for easy soldering. For low-voltage incandescent lamps such as T-3¼, G-3½ and G-4½. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0200	4151-014	18	1.03	.72	.45
749-0225	4151-314	19	1.03	.72	.45
749-0215	4151-115	20	1.03	.72	.45
749-0210	4151-112	21	1.03	.72	.45
749-0205	4151-107	22	1.03	.72	.45
749-0220	4151-129	23	1.03	.72	.45
749-0150	4099-017	24	.95	.76	.48

SERIES 4601 MIDGET GROOVED

For midget-grooved base incandescent lamps, TL-1¾ and T-1¾. Shell and bracket have corrosion resistant plating. Two terminals. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0600	4601-051	25	2.83	1.89	1.41
749-0605	4601-314	26	2.83	1.89	1.41

SERIES 4605 MIDGET GROOVED

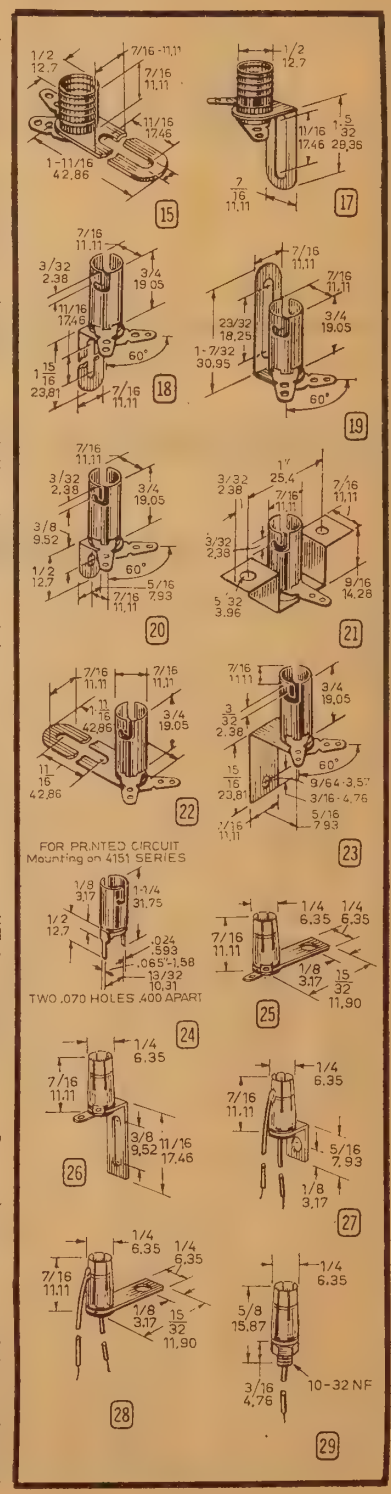
Same as Series 4601 above, but has two 6" insulated wire leads. For use with TL-1¾ and T-1¾ lamps. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0655	4605-308	27	2.83	1.89	1.41
749-0650	4605-053	28	2.83	1.89	1.41

SERIES 4615 MIDGET GROOVED

Subminiature socket. Same as Series 4601 but grounded with single wire lead. Supplied with nut. For use with TL-1¾ and T-1¾ lamps. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-24	25-99	100-Up
749-0675	4615-332	29	2.83	1.89	1.41

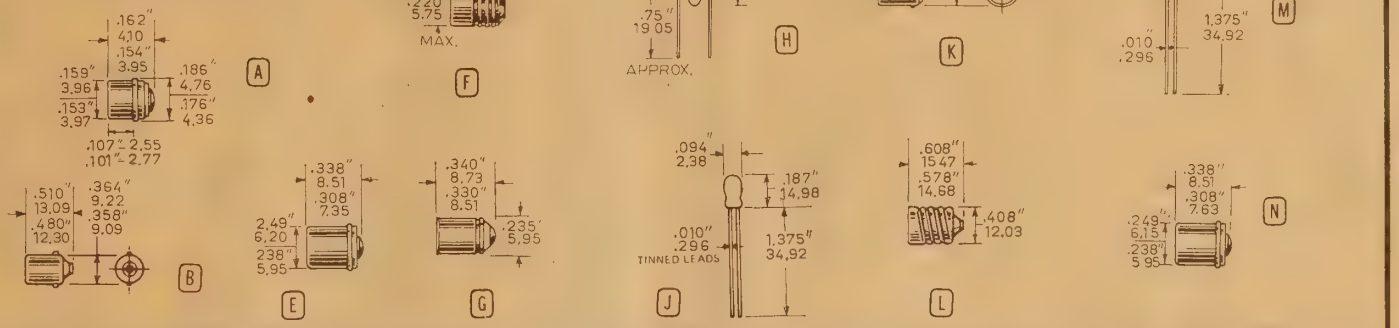


Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Miniature and Sub-Miniature Lamps

For Use Where Precise Light Output is of Primary Importance

ALLIED...
WHEN YOU NEED
RELIABLE LAMPS
AT REASONABLE PRICES



SUBMINIATURE AND MIL SPEC LAMPS

- **Wide Assortment of Popular Styles**
- **All Types ¼" Diameter and Smaller—Operate on 30 Volts or Less**

The lamps listed below are the most popular types available. Quality incandescent lamps ¼" in diameter or less; voltage limited to 30 volts or less. Many styles to choose from for such diverse applications as aircraft, appliances, automotive, radio or TV applications. Allied carries lamps for all needs—contact your nearest Allied facility.

All lamps listed are sold in packages of ten only.

*Indicates Base Configuration.

Stock No.	Mfr's Type	*	Volts	Amps	Base	Pkg. of 10 1-9	Pkg. of 10 10-Up
749-9225	334	G	28.0	.04	Midget Grooved	9.00	7.14
749-9230	334 LSV	G	28.0	.06	Midget Grooved	20.20	17.68
749-9235	335	F	28.0	.04	Per Mil. 15612-2	9.83	7.81
749-9240	336	G	14.0	.08	Midget Grooved	9.51	7.54
749-9280	367	E	10.0	.04	Midget Flanged	13.13	10.41
749-9300	379	G	6.3	.20	Midget Grooved	11.74	9.31
749-9320	385	E	28.0	.04	Midget Flanged	14.53	11.53
749-9332	399	F	28.0	.04	Midget Screw	12.92	10.26
749-9545	1705D	H	14.0	.08	Wire Terminal	8.23	6.53
749-9560	1764D	H	28.0	.04	Wire Terminal	6.26	4.97
749-9725	2187D	H	28.0	.04	Wire Terminal	6.13	4.87
749-9746	6839	A	28.0	.024	Sub-Midget Flanged	30.54	26.72
749R3068	CM8-967	B	120	.025	Min. Bayonet	22.58	19.76

STANDARD VOLTAGE LAMPS

*Base configuration.

Stock No.	Mfr's Type	*	Volts	Watts	Bulb Style	PKG. OF 10 1-9	PKG. OF 10 10-Up
749-8703	3S6/5	J	120	3	S-6	15.06	13.18
749R8720	6S6(115)	J	115	6	S-6	6.10	4.83
749-8721	6S6(145)	J	145	6	S-6	15.04	13.16
749-8722	6S6/DC	K	120	6	S-6	10.15	8.05
749-8725	6T4½/1	J	115-125	6	T-4½	17.10	14.96
749-8730	7C7	J	115-125	7	C-7	7.97	6.32
749-8735	10C7	J	115-125	10	C-7	8.95	7.11
749-8738	10C7DC	K	115-125	10	C-7	11.35	7.94
749-8740	10S6C	J	230	10	S-6	17.10	14.96
749-8745	10S6C	J	250	10	S-6	17.10	14.96

LONG LIFE LAMPS

M.F., midget flanged. W.T., wire terminal. *Base configuration. **Sold in Pkgs. of 10.**

Stock No.	Mfr's Type	*	V.	A.	Base	Bulb	PKG. OF 10 1-9	PKG. OF 10 10-Up
749-9205	327LSV	N	28 0	06	M F	T-1¾	12.96	10.29
749-9425	713	M	5 0	075	W T.	T-1	10.39	8.24
749-9750	7153	L	5 0	115	W T.	T-¾	16.50	14.44

NEON CIRCUIT CONTROL LAMPS

T-2 style bulbs; have wire leads. Radioactive additive reduces breakdown voltage in darkness. Tinned 1" leads for easy soldering. Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	DC Start Voltage	Design Current DC mA	PKG. OF 10
749-8705	5AB (NE-23)	60-90	.3	5.40
749-8710	5AH (NE-83)	60-100	10.0	7.41

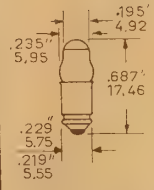
MINIATURE NEON-GLOW INDICATOR LAMPS

For 105-600 V. Screw types have series resistor for 105-125 V. In **Base** column: S.C., single; Mid., midget; Bay., bayonet; Cand., candelabra. *AC start V, DC V 40% higher. †High brightness. 2 oz.

Stock No.	Mfr's Type	Watts	*AC V	Bulb Style	Base	PKG. 10
749R2100	A1A (NE-2)	1/17	65	T-2	Wire Term.	2.10
749-2160	C7A (NE-2D)	1/15	65	T-2	S.C. Mid. Flge.	15.88
749-2115	A9A (NE-2E)	1/10	65	T-2	Wire Term.	1.84
749-2155	†C2A (NE-2H)	1/5	...	T-2	Wire Term.	1.84
749-2165	†C9A (NE-2J)	1/5	105	T-2	S.C. Mid. Flge.	14.74
749-2145	B7A (NE45)	¼	65	T-4½	Cand. Screw	27.60
749R2120	B1A (NE-51)	1/25	65	T-3¼	S.C. Bay. Min.	5.89
749R2125	†B2A (NE-51H)	1/7	95	T-3¼	S.C. Bay. Min.	5.89

Lamps on This Page Sold Only in Boxes of 10 Unless Otherwise Noted

HIGH-OUTPUT LENS-END LAMPS



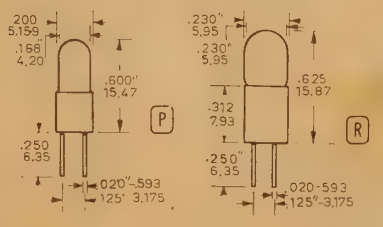
GTL SERIES. Miniature lamps have focused beam, ideal for activating photoconductors in card or tape operations. 0.35 amp at 2.5 V, AC-DC. Midget grooved base. Overall diameter is .250". 1 1/16" long. Av. shpg. wt. 3 oz.

Stock No.	Mfr's Type	Style	PER BULB 1-9	PER BULB 10-Up
749-9155	253	GTL-1¾	3.34	3.02
749-9160	253X	GTL-1¾	4.16	3.77

SUBMINIATURE INCANDESCENT B1-PIN LAMPS

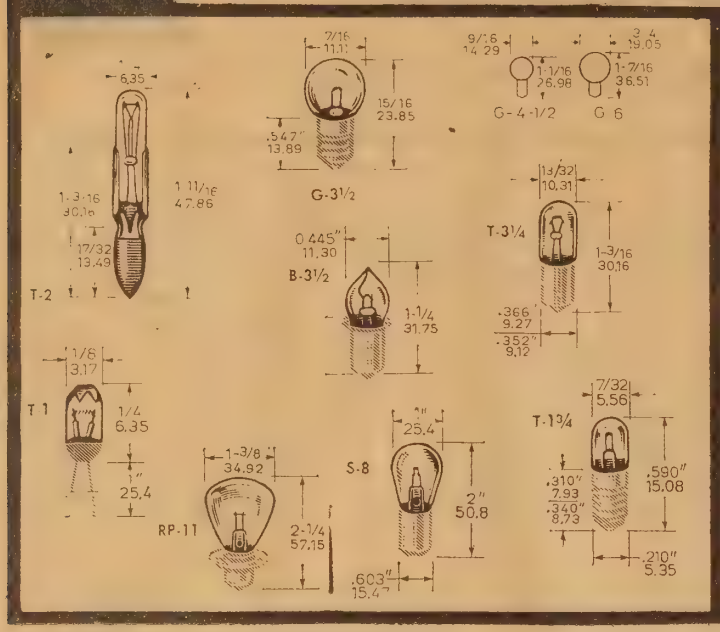
- Long Life . . . Low Replacement Rate
- Coiled-Coil, Tungsten Filament
- Shock, Vibration Resistant
- Two Cap Styles Offering 180° Visibility
- Ideal for Many Critical Indicator Applications

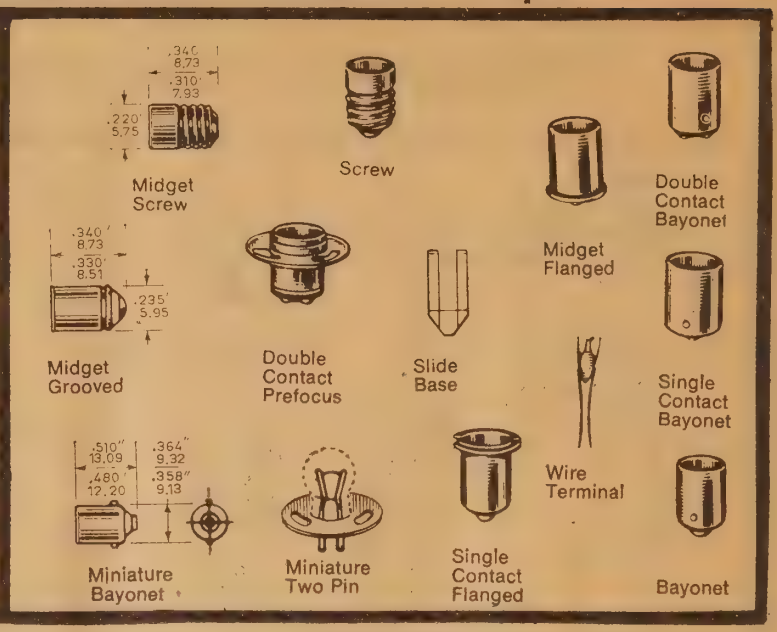
B1-Pin lamps are widely used for indicator lighting and many other design applications. Tough, dependable . . . use where lamp replacement is difficult. Terminals: .20" dia. T-1¼ bulb, .200" dia. x .600" max; T-1¾ bulb, .230" dia. x .625" max. Sold in packages of 10.



Stock No.	Type CM7-	Fig.	V	Amps	M.S. C.P.	Bulb Size	PKG. OF 10 1-4	PKG. OF 10 5-9	PKG. OF 10 10-Up
749-2829	7646	P	14 0	08	50	T-1¼	11.93	10.82	9.47
749-2826	7632	P	28 0	.04	.32	T-1¼	11.93	10.82	9.47
749-2814	7377	R	6 3	075	22	T-1¾	7.11	6.44	5.64
749-2816	7381	R	6 3	.20	.40	T-1¾	7.31	6.64	5.81
749-2794	7349	R	6 3	20	55	T-1¾	6.88	6.24	5.46
749-2817	7832	R	14 0	08	30	T-1¾	7.31	6.64	5.81
749-2818	7387	R	28 0	04	30	T-1¾	7.11	6.44	5.64
749-2790	7327	R	28 0	04	34	T-1¾	6.51	5.90	5.16

Miniature and Subminiature Incandescent Lamps





BULB STYLE

Wide variety of miniature and subminiature incandescent lamps for such applications as aircraft, annunciators, appliances, automotive, bicycles, coin machines, flashlights, marine, medical equipment, indicators, signs and house numbers, radio and TV, telephone, toys and novelties. These

BASE STYLE

lamps offer extra-long life, reliability, low cost, high light output for the amount of current consumed. Low operating cost. Refer to Figure above for abbreviations. *To order, specify lamp type listed and quantities desired.*

ORDER LAMPS LISTED BELOW IN BOXES OF 10 ONLY

Stock No.	Type	Volts	Amps	Base Style	Bulb Style	Per Box of 10 1-9 Boxes	Per Box of 10 10-Up Boxes
602-8402	PR-2	2.38	.50	S.C.F.	B-3½	3.60	2.64
602R9012	12	6.3	.15	Min. 2-pin	G-3½	4.37	3.47
602-9024	24E	24	.035	Slide Base	T-2	10.82	8.59
602-9025	24X	24	.035	Slide Base	T-2	13.15	10.43
602-9040	40	6.3	.15	Screw	T-3¼	2.51	2.00
602R9044	44	6.3	.25	Bayonet	T-3¼	2.59	2.05
602-9046	46	6.3	.25	Screw	T-3¼	2.91	2.31
602R9047	47	6.3	.15	Bayonet	T-3¼	2.59	2.05
602R9050	49	2.0	.06	Bayonet	T-3¼	4.46	3.54
602R9052	51	7.5	.22	Bayonet	G-3½	2.65	2.10
602R9054	53	14.4	.12	Bayonet	G-3½	2.80	2.22
602R9055	55	7.0	.41	Bayonet	G-4½	3.60	2.85
602-9063	63	7.01	.63	S.C. Bayonet	G-6	3.97	3.15
602-9082	82	6.5	1.05	D.C. Bayonet	G-6	4.00	3.17
602R9093	93	12.8	1.04	S.C. Bayonet	S-8	5.14	4.08
602R9140	222	2.25	.25	Screw	TL-3	3.30	2.63
602R9180	313	28	.17	Bayonet	T-3¼	6.19	4.92
602R9195	327	28	.04	Mid. Flanged	T-1¾	5.38	4.27
602R9210	328	6	.20	Mid. Flanged	T-1¾	4.80	3.82
602R9215	330	14	.08	Mid. Flanged	T-1¾	7.26	5.76
602-9260	344	10	.014	Mid. Flanged	T-1¾	11.56	9.17
602-9265	345	6	.04	Mid. Flanged	T-1¾	10.39	8.24
602-9310	381	6.3	.20	Mid. Flanged	T-1¾	10.11	8.02
602R9315	382	14	.08	Mid. Flanged	T-1¾	8.80	6.98
602-9321	386	14	.08	Mid. Grooved	T-1¾	11.70	9.29
602R9322	387	28	.04	Mid. Flanged	T-1¾	5.18	4.11
602-9323	388	28	.04	Mid. Grooved	T-1¾	10.28	8.16
602-9407	683	5	.060	Wire Term.	T-1	10.88	8.63
602-9440	755	6.3	.15	Min. Bay.	T-3¼	4.11	3.26
602-9442	756	14	.08	Min. Bay.	T-3¼	7.88	6.25
602-9444	757	28	.08	Min. Bayonet	T-3¼	7.05	5.60
602-9475	1129	6.4	2.63	S.C. Bayonet	S-8	5.87	4.66
602-9485	1133	6.2	3.91	S.C. Bayonet	RP-11	11.98	9.50
602-9527	1493	6.5	2.80	D.C. Bayonet	S-8	20.86	18.25
602R9535	1630	6.5	2.75	D.C. Perf.	S-8	27.42	23.99
602-9563	1768	6	.20	Midget Screw	T-1¾	10.76	8.54
602R9595	1815	14.0	.20	Min. Bayonet	T-3¼	4.48	3.55
602R9605	1819	28	.04	Min. Bayonet	T-3¼	6.90	5.48
602R9610	1820	28	.10	Min. Bayonet	T-3¼	6.90	5.48
602-9615	1822	36	.10	Min. Bayonet	T-3¼	10.73	8.51
602-9620	1828	37.5	.05	Min. Bayonet	T-3¼	8.63	6.84
602R9625	1829	28	.07	Min. Bayonet	T-3¼	5.44	4.32
602-9630	1835	55	.05	Min. Bayonet	T-3¼	11.27	8.94
602-9635	1847	6.3	.15	Min. Bayonet	T-3¼	2.72	2.15
602-9721	2182	14	.08	Wire Term.	T-1¾	8.06	6.41

SPECIAL PRICES ON LAMPS IN LOTS OF 5000

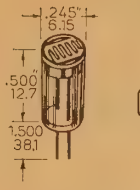
Here's an opportunity for larger OEM users to buy large quantities of lamps at special prices on bulk lots of 5000. Take advantage of these low prices and order all the bulbs you require. These are industrial standard bulbs, high quality for longer life. Allied is able to provide these low prices because of its huge buying power. Minimum order is 5000 for any one type of bulb. Contact your nearest Allied representative or warehouse for quotes on larger quantity prices. Delivery of shipment is in 4 to 6 weeks ARO.

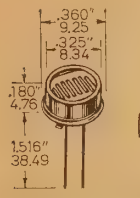
Stock No.	Lamp Type	EACH BULB Sold only in lots of 5000
592-8402	PR2	.113
592-9044	44	.091
592-9047	47	.091
592-9050	49	.153
592-9052	51	.11
592-9054	53	.11
592-9055	55	.116
592-9093	93	.156
592-9180	313	.189
592-9195	327	.214
592-9210	328	.23
592-9215	330	.23
592-9315	382	.256
592-9322	387	.205
592-9442	756	.20
592-9444	757	.189
592-9595	1815	.15
592-9605	1819	.161
592-9610	1820	.209
592-9620	1828	.39
592-9625	1829	.219
592-9630	1835	.44

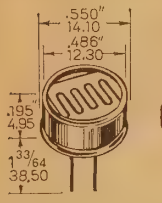
See Page 2 for the Allied Electronics Facility Nearest You

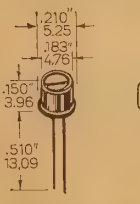
Photocells

CdS AND CdSe PHOTOCELLS



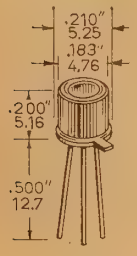






Type 2 CdS: Peak resp. 5150A, bluest response photosensitive material; high stability, low temp. error. **Use** with fluorescent and incandescent lamps. **Type 3 CdSe:** Peak response 7350A, fast response, high light-to-dark resistance ratio. Good for hi-speed switching, counting. Sensitive to near infrared. For incandescent or neon. **Type 4 CdSe:** Peak response 6900A. Good for on-off use when low resistance is desired. For incandescent or neon. **Type 5 CdS:** Peak response 5500A (closely matches human eye), stable, low memory photocell. Good in light measuring applications and precise low speed switching. For incandescent, neon, fluorescent. **Type 5H CdS:** Peak response 5500A. Uniform color temp. response. For speed switching, high stability measuring; incandescent, fluorescent, neon. **Type 7 CdS:** Peak response 6150A, moderate speed and ratio. Good in general beam breaking applications. **Dual Element:** Contains 2 separate elements with leads and common lead. *Resistance at 2 fc ±33⅓%. †Resistance ratio from 2 fc to dark within 5 seconds. ‡Res. at 25°C (mW.) §With/without heat sink. 2 oz.

Stock No.	Mfr's Type	Fig.	Description	Dia. x Lgth. In.	Dia. x Lgth. (mm)	*Resist. @ 2 fc	Max. Res. † Ratio	Max. Volt.	‡Power Dissip.	EACH 1-49	EACH 50-99	EACH 100-Up
751-1700	CL602	B	Type 2 CdS	.25 x .5	6.35 x 12.7	1 meg	1:100	300	75	4.43	2.70	2.24
754-1301	CL5M3	D	Type 3 CdSe	.55 x .18	13.9 x 4.57	7.2k	1:10,000	250	2000/500§	3.05	1.86	1.54
751R1701	CL603	B	Type 3 CdSe	.25 x .5	6.35 x 12.7	133k	1:10,000	300	75	4.43	2.70	2.24
751R1702	CL603A	B	Type 3 CdSe	.25 x .5	6.35 x 12.7	75k	1:10,000	300	75	4.43	2.70	2.24
751R1703	CL603AL	B	Type 3 CdSe	.25 x .5	6.35 x 12.7	3.5k	1:10,000	170	75	4.43	2.70	2.24
751-1902	CL703	C	Type 3 CdSe	.35 x .18	8.89 x 4.57	133k	1:10,000	300	125	3.03	1.85	1.53
751R1904	C0703L	C	Type 3 CdSe	.36 x .18	9.14 x 4.57	2.7k	1:10,000	100	125	3.03	1.85	1.53
751-2404	CL903	E	Type 3 CdSe	.21 x .15	5.33 x 3.81	133k	1:10,000	250	50	2.88	1.75	1.45
751-2402	CL903A	E	Type 3 CdSe	.21 x .15	5.33 x 3.81	67k	1:10,000	250	50	2.88	1.75	1.45
751R2403	CL903L	E	Type 3 CdSe	.21 x .15	5.33 x 3.81	6k	1:10,000	100	50	2.88	1.75	1.45
751-1302	CL5M4	D	Type 4 CdSe	.55 x .18	13.9 x 4.57	1.5k	1:1000	250	2000/500§	3.05	1.86	1.54
751-1303	CL5M4L	D	Type 4 CdSe	.55 x .18	13.9 x 4.57	0.25k	1:1000	170	2000/500§	3.05	1.86	1.54
751-1704	CL604	B	Type 4 CdSe	.25 x .5	6.35 x 12.7	30k	1:1000	300	75	4.43	2.70	2.24
751R1705	CL604L	B	Type 4 CdSe	.25 x .5	6.35 x 12.7	1.5k	1:1000	170	75	4.43	2.70	2.24
751-1907	CL704	C	Type 4 CdSe	.36 x .18	9.14 x 4.57	30k	1:1000	300	125	3.03	1.85	1.53
751-1908	CL704L	C	Type 4 CdSe	.36 x .18	9.14 x 4.57	0.6k	1:1000	100	125	3.03	1.85	1.53
751R2405	CL904L	E	Type 4 CdSe	.21 x .15	5.33 x 3.81	2k	1:1000	100	50	2.88	1.75	1.45
751-1304	CL5M5	D	Type 5 CdS	.55 x .18	13.9 x 4.57	9k	1:100	250	2000/500§	3.05	1.86	1.54
751-1707	CL605L	B	Type 5 CdS	.25 x .5	6.35 x 12.7	7.5k	1:100	170	75	3.85	2.35	1.95
751-1913	CL705L	C	Type 5 CdS	.36 x .18	9.14 x 4.57	3.3k	1:100	100	125	3.03	1.85	1.53
751-2410	CL905	E	Type 5 CdS	.21 x .15	5.33 x 3.81	166k	1:100	250	50	2.88	1.75	1.45
751-2409	CL905L	E	Type 5 CdS	.21 x .15	5.33 x 3.81	10k	1:100	100	50	2.88	1.75	1.45
751R1912	CL705HL	C	Type 5H CdS	.36 x .18	9.14 x 4.57	28k	1:1000	100	125	3.03	1.85	1.53
751R2407	CL905HL	E	Type 5H CdS	.21 x .15	5.33 x 3.81	100k	1:1000	100	50	2.88	1.75	1.45
751-1306	CL5M7	D	Type 7 CdS	.55 x .18	13.9 x 4.57	7.2k	1:1000	250	2000/500§	3.05	1.86	1.54
751-1916	CL707	C	Type 7 CdS	.36 x .18	9.14 x 4.57	133k	1:1000	300	125	3.03	1.85	1.53
751-1920	CL707L	C	Type 7 CdS	.36 x .18	9.14 x 4.57	2.7k	1:1000	100	125	3.03	1.85	1.53
751-1919	CL707HM	C	Type 7H CdS	.36 x .18	9.14 x 4.57	100k	1:1090	250	125	3.03	1.85	1.53
751-1918	CL707HL	C	Type 7H CdS	.36 x .18	9.14 x 4.57	10k	1:1000	100	125	3.03	1.85	1.53
751-2415	CL907HN	E	Type 7H CdS	.21 x .15	5.33 x 3.81	300k	1:1000	100	50	2.88	1.75	1.45
751-2414	CL907HL	E	Type 7H CdS	.21 x .15	5.33 x 3.81	24k	1:1000	100	50	2.88	1.75	1.45
751-1890	CL702L/2	C	Type 2 CdS Dual	.36 x .18	9.14 x 4.57	46k	1:100	100	125	4.10	2.50	2.07
751-1308	CL5M9M	D	Type 9 CdS	.55 x 1.71	13.9 x 43.4	11k	1:1000	170	500	3.13	1.90	1.58
751-1950	CL709L	C	Type 9 CdS	.36 x 1.69	9.14 x 42.9	28k	1:1000	100	125	3.38	1.90	1.58
751-2450	CL909L	E	Type 9 CdS	.21 x .67	5.33 x 17.0	100k	1:100	100	50	2.95	1.80	1.49

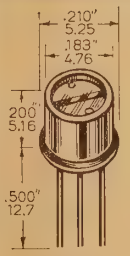


SILICON NPN PLANAR EPITAXIAL PHOTOTRANSISTORS

TO-18 case. Ic 200mA. **CLT2010.** Hermetic. *The package design is ideally suited for mounting in printed circuit boards. Exhibits high illumination sensitivity and stable characterstics. Pt 250mW. tr/tf3μsec. Window. The base lead is available to provide more flexible circuit design. **CLR2180.** Darlington lens. Pt250mW. tr 200 tr 150. the lensed window unit reduces optical cross-talk from stray light. Unit characterized for controlled, high sensitivity at very low irradiance levels. The initial stage base lead is provided for those applications where circuitry biasing permits additional gain and switching controls.

Stock No.	Mfr's Type	IL (mA) min/max @ Conditions	BVceo min @ Ic	Vce (SAT) @ Ic mA	EACH 1-49	EACH 50-99	EACH 100-Up
751-2540	CLT2010	0.2/0.6 @ Vce 5, H5mW/cm²	50 @ 0.1mA	0.30 @ 10	3.63	1.89	1.22
751-2520	CLR2180	0.6/ @ Vce 5, H 0.02mW/cm²	40 @ 0.1mA	1 @ 10	5.63	2.91	2.25
751-2500	CLR2050	0.6/1.8 @ Vce5, H0.2mW/cm²	40 @ 0.1mA	1.0 @ 10	4.80	2.49	1.92
751-2510	CLR2060	1.4/4.0 @ Vce5, H0.2mW/cm²	40 @ 0.1mA	1.0 @ 10	5.28	2.74	2.11
751-2515	CLR2170	0.2/0.8 @ Vce5, H0.002mW/cm²	40 @ 0.1mA	1.0 @ 10	5.08	2.64	2.03
751-2020	CLT2020	0.4/1.2 @ Vce5, H5mW/cm²	30 @ .1 mA	0.30 @ 10	3.88	2.02	1.31
751-2700	CLT2130	0.6/1.8 @ Vce5, H5mW/cm²	50 @ .1 mA	0.35 @ 10	4.13	2.14	1.38
751-2705	CLT2140	1.2/3.6 @ Vce5, H5mW/cm²	40 @ .1 mA	0.30 @ 10	4.40	2.28	1.47
751-2710	CLT2150	2.4/7.2 @ Vce5, H5mW/cm²	40 @ .1 mA	0.30 @ 10	4.65	2.42	1.56
751-2720	CLT2160	4.0/12.0 @ Vce5, H5mW/cm²	30 @ .1 mA	0.30 @ 10	4.93	2.56	1.65
751-3020	CLT3020*	0.10 @ Vce5, H5mW/cm²	50 @ 0.1 mA	0.3 @ 0.4	5.00	2.90	2.00
751-3030	CLT3030*	0.25 @ Vce5, H5mW/cm²	40 @ 0.1 mA	0.3 @ 0.4	5.25	3.05	2.10
751-3160	CLT3160	0.5 @ Vce5, H5mW/cm²	50 @ 0.1 mA	0.3 @ 0.4	5.25	3.05	2.10
751-3360	CLT5160	0.5 @ Vce5, H5mW/cm²	40 @ 0.1 mA	0.3 @ 0.4	5.00	2.70	1.95
751-3370	CLT5170	1.4 @ Vce5, H5mW/cm²	40 @ 0.1 mA	0.3 @ 0.4	5.38	2.95	2.10

ALLIED HAS A WIDE SELECTION OF PHOTOCELLS AND PHOTOCELL PRODUCTS FOR YOU TO CHOOSE FROM AND EVERYTHING ON THIS PAGE IS STOCKED BY ALLIED; CONTACT YOUR NEAREST ALLIED WAREHOUSE.



PHOTOCHOPPER CELLS

Maintain high efficiency over wide temperature range and eliminate warm-up time. Efficiency levels, in spite of SPDT configuration, are 72% at 1 kHz, 93% at 400 kHz, and 98% at 60 Hz. Efficiency change from 28°C to 60°C is less than 15%. Range: −50°C to +75°C. Rated 50 mW at 25°C. Conductive glass windows and third lead is grounded to case for shielding. Size is .210 x .150" (5.33 x 3.81 mm) Shipping wt. 2 oz. (56.69 gm).

Stock No.	Mfr's Type	Res. ON Ohms	Res. OFF Ohms	EACH 1-49	EACH 50-99	EACH 100-Up
751-2412	CL906CS	82k	8 megs	6.40	3.90	3.24



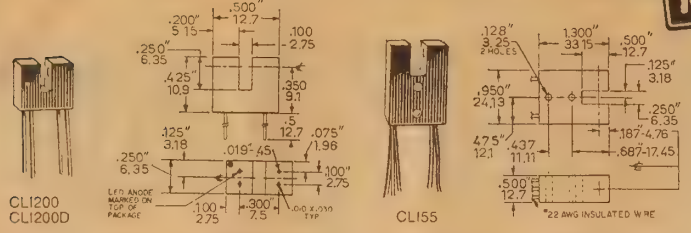
PHOTOMOD® PHOTOCELL-LAMP MODULE

Clairex high stability photocells in photocell-lamp modules. Ideal for use in automation and data processing systems. Rugged potted package. For maximum efficiency, the cells are optically coupled to the lamps. Operating temperature, 20°C to 75°C. Maximum power dissipation 50 mW at 25°C. Maximum cell volts, 120 volts with lamp off. †Maximum voltage for 5000-hour life. *Neon lamps are of the "high-brightness" type. Their brightness, on an equal life basis is approximately ten times that of the standard brightness. In table below, Rise Time is the time required to reach 100% of on-resistance from off condition; tested after lamp has been on 24 hours. 1⅛" (28.5 mm) long by ⅜" (9.52 mm) dia. Wt. 1 oz. (28.34 gm).

Stock No.	Type	Max. ON Ohms	Rise Time Seconds	Lamp †Volt	Lamp mA	EACH 1-49	EACH 50-99	EACH 100-Up
751-0200	CLM3006A	160	.060	6V	40	4.90	2.75	1.97
751-0400	CLM4006A	55	.080	6V	40	4.90	2.75	1.97
751-0206	CLM3012A	160	.080	12V	40	4.90	2.75	1.97
751-0406	CLM4012A	30	.080	12V	40	4.90	2.75	1.97
751-0300	CLM3120A	1150	.005	120V	2.5*	4.90	2.75	1.97
751-0500	CLM4120A	160	.005	120V	2.5*	4.90	2.75	1.97

Photocell Products and Flashtubes

OPTICAL SWITCHES

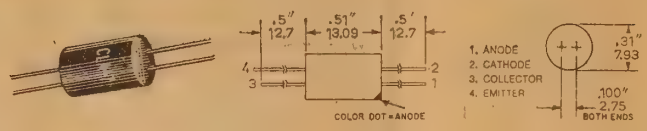


Rugged optical switches have emitters and sensors hermetically sealed for maximum protection. Glass lenses. Max. storage temp: −55° to +150°C. Operating junction temp: +100°C. **EMITTER:** Power dissipation at 25°C, 100mW. **DETECTOR:** Power dissipation at 25°C, 50mW; *200mW. At 100°C, 12.5mW (types CLI200 and CLI200D).

Stock No.	Mfr's Type	Max. VR	Max. IF DC	VCEO	VECO	Price Each 1-9	10-24	25-Up
751-5070	CLI55	3V	60mA	50	6	9.75	6.70	5.20
751-5080	CLI200*	3V	60mA	40	5	9.38	6.28	4.80
751-5085	CLI200D*	3V	60mA	40	5	9.63	6.43	4.90

NEW!

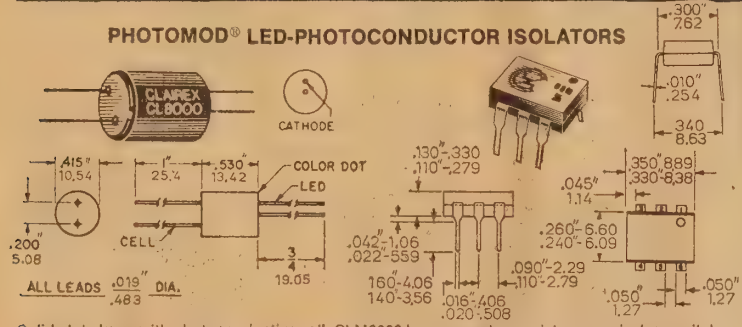
HIGH VOLTAGE AXIAL LEAD ISOLATORS



Axial lead isolators are designed for uses where high voltage isolation requirements apply. The CLA-7 has a phototransistor as the detector and features a min. transfer ratio of 20% with a 7000V peak isolation. The CLA-7D has a photodarlington as the detector. It features a min. transfer ratio of 400% with 7000V peak isolation. Power dissipation at 25°C for emitter is 150mW; for detector, 200mW. Max. storage and operating temperature: −40°C to +100°C. **UL listed.**

Stock No.	Mfr's Type	IF	VCEO	VECO	Max. Curr.	Price Each 1-49	50-99	100-Up
751-2470	CLA-7	40mA	40V	6V	100mA	6.00	3.40	2.40
751-2475	CLA-7D	40mA	40V	6V	100mA	6.00	3.40	2.40

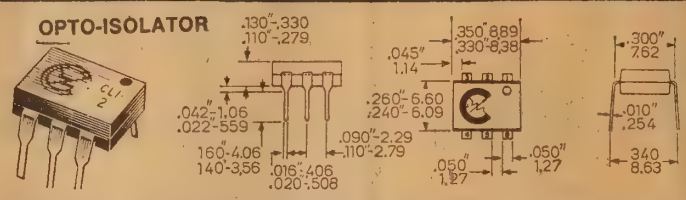
PHOTOMOD® LED-PHOTOCONDUCTOR ISOLATORS



Solid-state lamp with photoconductive cell. CLM6000 low power, low resistance, noiseless switching. Interfaces TTL to TTL providing complete isolation. CLM8000, 8500 sealed device will operate on line voltage to drive SCR, Triacs from TTL output. CML60 and 61 feature AC signal input capability. CLM50 and 51 provide DIP opto isolator for linear and logic functions. *IF=20mA, †IF=16mA.

Stock No.	Mfr's Type	If max. mA	Vf max.	Cell Vmax VDC/PAC	P@25°C mW	RON Max	ROFF Min	EACH 1-49	50-99	100-Up
751-0050	CLM50	40	2.5†	250	50	2.5k	1 meg	3.38	2.00	1.30
751-0055	CLM51	40	2.5†	250	50	4.5k	1 meg	3.75	2.30	1.50
751-0060	CLM60	40	2.5†	250	50	4k	1 meg	4.25	2.60	1.70
751-0065	CLM61	40	2.5†	250	50	7k	1 meg	4.75	2.90	1.90
751-4300	CLM6000	40	2.0*	60	50	250	500k	6.00	2.90	1.70
751-4400	CLM8000	50	3.2*	220	125	400	500k	7.75	3.75	2.50
751-4500	CLM8500	80	2.8*	220	125	2k	10 meg	8.50	4.15	2.90
751-4350	CLM6200	40	2.0*	60	50	6k	10 meg	5.38	3.25	2.05
751-4375	CLM6500	40	2.5*	100	50	300	10 meg	6.00	3.40	2.30
751-4425	CLM8200	40	2.0*	220	125	2.8k	10 meg	5.25	3.10	2.00
751-4450	CLM8200/2	40	2.0*	100	125	5k	10 meg	6.50	3.20	2.25
751-4510	CLM8500/2	40	2.8*	100	125	1k	1 meg	9.38	5.25	3.60
751-4575	CLM8500HV	40	2.5*	400	125	5k	10 meg	8.63	4.40	3.00
751-4600	CLM8600	40	2.5*	500	100	2k	10 meg	6.00	3.55	2.30

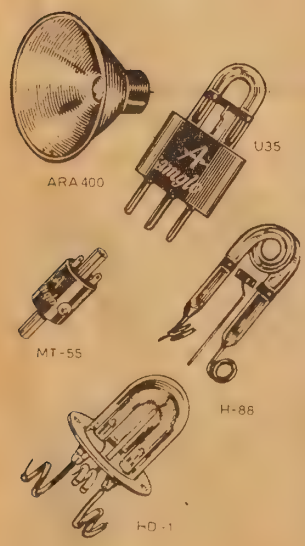
OPTO-ISOLATOR



Opto-isolators provide controlled transfer ratios. Excellent switching speed. Storage temperature −55°C to +150°C. Operating junction temperature: +100°C. Lead Solder temperature: +260°C, 10sec. Capacitance: 2pF. Isolation Voltage: 2500 PAC. **Emitter.** GaAs diode, Pt 100mW @ 25°C, derate linearly 1.33mW/c. VR: 3 max. IF DC 60 mA max., continuous. Forward Voltage (IF 16mA): 1.5. **Detector.** NPN Silicon Planar phototransistor. Pt 200mW @ 25°C, derate 2mW/c. 200mA maximum current.

Stock No.	Mfr's Type	Detector ICEO (nA) @IF=0, VCE=10V	Coupled DC Transfer Ratio % @IF 10mA, VCE=10V	Coupled tr or tf (μsec) RL100, ICE 2mA VCC 10V	EACH 1-49	50-99	100-Up
751-5000	CLI-2	25nA	30 min 100 max	5 max	3.00	1.90	1.05
751-5010	CLI-3	25nA	100 min 200 max	5 max	6.80	3.40	2.90
751-5015	CLI-4	50nA	150 min	5 typ	5.20	2.60	1.90
751-5020	CLI-5	25nA	20 min	2.5 max	6.80	3.40	2.90
751-5022	CLI-6	50nA	50 min	5 typ	3.63	1.90	1.30
751-5024	CLI-7	50nA	.....	5 max	3.55	1.80	1.10
751-5026	CLI-8	50nA	20 min	4 typ	2.20	1.10	.93
751-5028	CLI-9	100nA	6 min 30 max	3 typ	2.60	1.30	1.11
751-5030	CLI-10	100nA	600 min	100 typ	4.88	2.85	1.95
751-5032	CLI-11	100nA	.....	150 typ	4.60	2.40	1.60
751-5034	CLI-12	100nA	300 min	150 typ	3.65	1.90	1.35
751-5036	CLI-13	100nA	100 min	150 typ	3.45	1.80	1.30
751-5038	CLI-14	100nA	100 min	150 typ	3.25	1.70	1.20
751-5050	CLI-25	50nA	20 min	5 typ	5.20	2.60	1.70
751-5052	CLI-26	50nA	40 min	5 typ	5.80	2.90	1.90
751-5054	CLI-27	100nA	400 min	200 typ	5.38	2.80	1.75
751-5056	CLI-28	100nA	600 min	200 typ	5.63	2.95	1.95
751-6000	CLI-506	100nA	6 min	15 max	2.08	1.00	.83
751-6005	CLI-506B	100nA	6 min	15 max	2.00	.95	.80

FLASHTUBES AND ACCESSORIES FOR INDUSTRIAL USE



REFLECTOR ASSEMBLIES

ARA-300-SH-88-P-4. Mounted in reflector with 4-pin base with H-88 flashtube. O.D. 3", O.L. 2.27". Max. input 80 joules. Operates 350-600V. Repetitive flashing: 60 per minute, 10 joules/flash 100 per second, 1 joules/flash. 6 oz.
726-0010. 1-9 .... Ea. 26.00 10-Up ... Ea. 22.10

ARA-300-SH-88-TP-4. Same as above but with trigger coil.
726-0020. 1-9 .... Ea. 29.25 10-Up ... Ea. 24.86

ARA-400-SH-88-TP-4. Mounted in reflector with 4-pin base with H-88 flashtube with trigger coil. O.D. 4.27". O.L. 3.72". Operates at 350-600V. Repetitive flashing: 60 per minute, 10 joules/flash: 100 per second, 1 joule/flash. 6 oz.
726-0030. 1-9 .... Ea. 30.00 10-Up ... Ea. 25.50

TRIGGER COILS

MT-55. Iron core trigger transformer for use with HD flashtubes. Output, 24 kV (discharge 400V at .5 μF): 12 kV (discharge 180V at .2 μF). Dia. ⅞", Lgth. 2". 4-lead output. 1½ oz.
726-0170. 1-9 .... Ea. 10.75 10-Up ... Ea. 9.14

ST-25. Air core trigger transformer for H-88, U-35 flashtubes. Output: 7 kV (discharge 300V at .2 μF); 4 kV (discharge 180V at .2 μF). Dia. ½", Lgth. ¾", ⅛ oz.
726-0180. 1-9 .... Ea. 3.76 10-Up ... Ea. 3.19

HELICAL HIGH POWER FLASHTUBES

H2-01-CT4. Trigger assembly, clear glass cover. 4-pin base. 200 Joule, 35W, 300V.
726-0120. 1-9 .... Ea. 28.50 10-Up ... Ea. 24.23
H2-01-B8. Mounted in 8 pin base.
726-0110. 1-9 .... Ea. 23.00 10-Up ... Ea. 19.55
H-1-01. Recommended high power application, tube only, 120 Joule, 18W, 300V.
726-0090. 1-9 .... Ea. 13.00 10-Up ... Ea. 11.05
H-1-01-ETB. Trigger assembly, based.
726-0100. 1-9 .... Ea. 20.50 10-Up ... Ea. 17.43
H-88-X. Heavy-duty construction, long life application, tube only. 200 Joule, 35W, 350V.
726-0070. 1-9 .... Ea. 13.50 10-Up ... Ea. 11.48
H-88-X-EB8. Heavy-duty construction, 8-pin base.
726-0080. 1-9 .... Ea. 21.00 10-Up ... Ea. 17.85

PYREX-COVER FLASHTUBES

HD-Series. For applications requiring an intense, compact flashtube mountable in reflector.
HD-1. Glass cover. Max. input 60 joules @ 450V.
726-0140. 1-9 .... Ea. 13.25 10-Up ... Ea. 11.26
HD-2. Glass cover and reflector disc. Max. input 120 joules @ 450V.
726-0150. 1-9 .... Ea. 16.25 10-Up ... Ea. 13.81

FLASHTUBE ENGINEERING MANUAL

Volume II. Strobe design and theory. 20 pages. Wt. ½ oz.
726-0001. 1-4 .... Ea. 2.00 5-Up .... Ea. 1.70

STROBOSCOPIC FLASHTUBES

U-35 Series. For applications such as automotive timing. Anode potential: max. 450V. 5 oz.
U-35-O. Basic tube, no trigger band/base. Max. power 5W.
726-0210. 1-9 .... Ea. 4.50 10-Up ... Ea. 3.83
U-35-T. Basic tube with braided leads/trigger band, no base. Max. power 5W.
726-0220. 1-9 .... Ea. 5.00 10-Up ... Ea. 4.25
U-35-BS. Mounted with reflected disc in 3-pin base. Minimum V: 200V. Max. Power 4W.
726-0190. 1-9 .... Ea. 10.15 10-Up .... Ea. 8.63
U-35-BCS. Clear glass cover. Minimum V: 200V. Max. Power 3W.
726-0200. 1-9 .... Ea. 10.90 10-Up .... Ea. 9.27
H-88 Series. Heavy-duty signal. Anode potential: max. 1500V. 8 oz.
H-88-T. Basic tube with trigger band. Max. power 10W.
726-0060. 1-9 .... Ea. 8.50 10-Up ... Ea. 7.23
H-88-B8. Mounted in 8-pin base. Max. power 8W.
726-0040. 1-9 .... Ea. 14.85 10-Up ... Ea. 12.62
H-88-BC8. Clear glass cover. Mounted in 8-pin base. Max. power 5W.
726-0050. 1-9 .... Ea. 15.75 10-Up ... Ea. 13.39

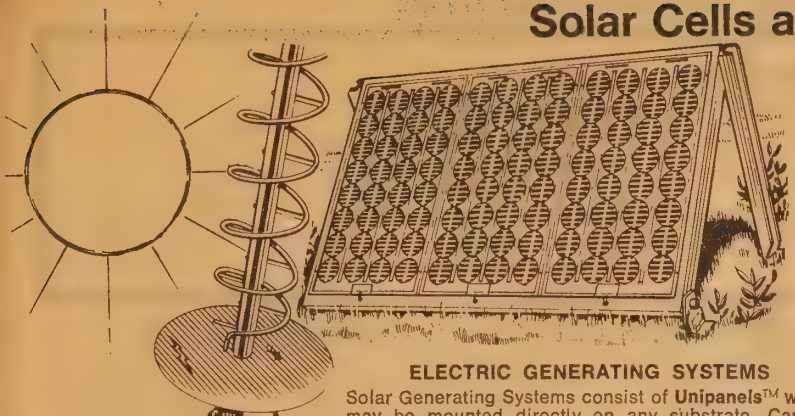
LINEAR FLASHTUBE

LSN-0106-00. No glass cover or trigger. Arc lgth: 1". Tube: O.D. 6mm, I.D. 4mm, O.D. 3". Anode Voltage: min. 200, max. 450. Min. impedance: 0.4 ohms. Max. input 50 joules. Power: 10W.
726-0160. 1-9 .... Ea. 4.75 10-Up ... Ea. 4.04

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Solar Cells and Panels

SOLAR ENERGY DEVICES

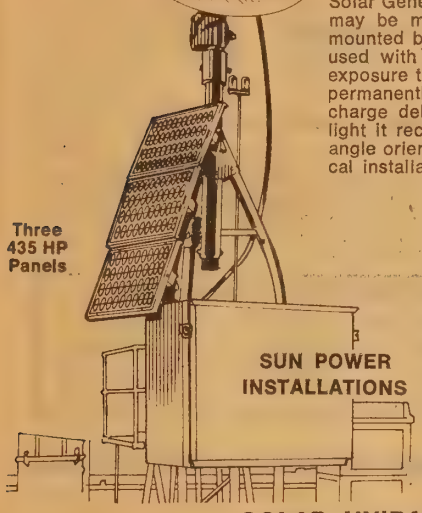


Semiconductor Devices Convert Light Directly to Electricity!

HOW IT WORKS: A Solar Cell, when exposed to light, produces approximately the same voltage between its two terminals. When a load is connected between the terminals, the voltage difference causes a flow of current. This current is caused by the formation of "hole-electron pairs" by the absorbed light photons. Accordingly, the amount of current will depend on the amount of absorbed light, which is dependent upon the incident light intensity as well as the surface area of the cell. Thus, solar cells are available with smaller or larger surface areas for various current requirements. They can be connected in series to produce higher voltage, in parallel for higher current, or both. Interconnected cells produce their rated voltage and current.

ELECTRIC GENERATING SYSTEMS

Solar Generating Systems consist of **Unipanels**™ which may be mounted directly on any substrate. Can be mounted by screws or with silicon rubber adhesive, or used with special frame that tilts the panel for best exposure to the sun. The Solar Energizer™ may be left permanently exposed to sun or light, as the amount of charge delivered is directly related to the amount of light it receives. The preferred installation is at a 45° angle oriented toward the south, but horizontal or vertical installations are acceptable. Can be used with any type of rechargeable battery. No need to ever disconnect the panel from the battery; the panel contains a blocking diode to prevent overnight drainage of the battery. The Solar Energizer™ is maintenance-free under normal environmental conditions.



Three 435 HP Panels

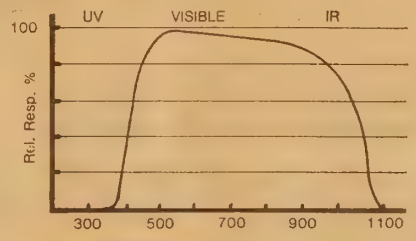
SUN POWER INSTALLATIONS

The Energy Source of the Future — Available Today!

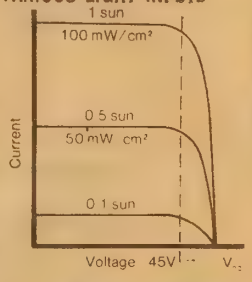
- **No Pollution** • **No Noise**
- **No Draining of Precious Resources**

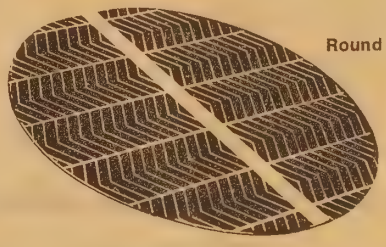
UNIPANELS™ Can Be Mounted in Frame for Peak Solar Efficiency

TYPICAL SPECTRAL RESPONSE
Wavelength, Nanometer

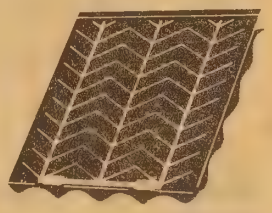


BEHAVIOR UNDER VARIOUS LIGHT INPUTS





Round



Rectangular

SOLAR UNIPANELS™

Constructed of heavy-duty weatherable fiberglass-epoxy and silicone rubber. Weather-tested design is in use on the ocean and on land — even in Antarctica. Units are submergible. Totally encapsulated; no exposed metal parts. Teflon-coated color-coded output wires (3-ft. long). Easy to connect: positive terminal of the panel should be wired directly to the positive terminal of the battery, with negative to negative. Can be used with any rechargeable battery, provided that the battery capacity is at least 20 times that of the amphere rating (full sun) of the Unipanel. Surface is self-cleaning; thin layers of dust, dirt or ice will not considerably decrease its efficiency. Panels operate in the temperature range of −70° F to +150° F. Type 435HP has universal tilt bracket mount with charge control circuit (illustrated above).

Solar Energizer and Unipanel are trademarks of Solarex Corporation. Solar cells are patented by the Solarex Corp.

SELECTION OF UNIPANELS

To select the appropriate Unipanel for a specific application you must first establish the operating voltage, then calculate the daily (24-hour) ampere-hour requirement and add 20% for losses in the battery recharging. Then compare this result with the specifications listed below. Unipanels may be connected in series and/or parallel to produce desired power output. **All panels meet JPL and ERDA specifications.** *Current at nominal voltage in full sunlight at 25° C. †Typical output at maximum power plant in full sunlight at 25° C.

Stock No.	Mfr's Type	Cell Size	Nom. V	Amps*	Watts†	Cells/ Panels	Panel Size In.	Panel Size cm	EACH 1-9	EACH 10-Up
946-0005	0155D	2¼"	1.5	.300	0.5	6	4.5x5.0	11.43x30.4	45.00	29.93
946-0030	615D	2¼"	6	.300	1.8	16	5.5x11	13.97x27.95	90.00	59.85
946-0015	220D	2¼"	12	.150	2.0	32	7x8.5	17.78x21.49	94.00	62.51
946-0025	230D	2¼"	12	.300	3.5	32	10x11	25.40x27.94	170.00	113.05
946-0045	1270D	3"	12	.600	7.5	32	13x14	33.02x35.6	358.00	238.07
946-0035	435HP	2¼"	14	.300	4.0	36	10x12	33.02x30.48	130.00	86.45
946-0055	1480D	3"	14	.600	8.5	36	13x16	33.02x40.64	250.00	166.25
946-0020	220HP	2¼"	12	.180	2.5	32	7x8.5	17.78x21.49	378.00	251.37
946-0070	4200J	3"	14	1.5	22	36	21x22	53.34x55.88	630.00	418.95
946-0100	HE50	6.3cm	14/28	1.4/2.7	35	64	21x21	53.34x53.34	1040.00	691.60

SOLAR CELLS

All Solar Cells are high quality silicon N/P type, with transparent protective coating. All types (except 4T223) have 2" minimum color-coded Teflon-coated lead wires. Each cell is individually tested to produce the specified current at rated voltage (0.45 V) in full sunlight (100 mW/cm² illumination) at 25°C. Minimum open circuit voltage: 0.55 V.

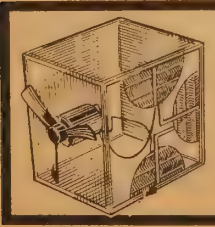
Temperature Coefficients: Temperature range, −65° to +125°C. Max. temp., +250°C for one minute (300° for short period). Voltage increases/decreases by 2 mV/°C below/above 25°C. Current increases/decreases by 25μA/cm²/°C above/below 25°C. Power decreases/increases by 0.3%/°C above/below 25°C.

RECTANGULAR SOLAR CELLS

Stock No.	Mfr's Type	Dimensions L x W In.	Dimensions L x W mm	Minimum Current mA@.45V	Conv. Efficiency	EACH 1-9	EACH 10-99	EACH 100-Up
946-0200	2T205	.4 x .8	10x20	45	10%	4.00	3.55	2.68
946-0310	4T206	.8 x .8	20x20	90	10%	5.38	4.75	3.59
946-0230	1T218	.8 x .2	20x5	19	10%	1.38	1.20	.93
946-0220	1T216	.4 x .4	10x10	22	10%	1.50	1.30	1.00
946-0240	05T219	.4 x .2	10x5	8	10%	1.25	1.10	.84
946-0250	025T220	.2 x .2	5x5	4	10%	1.00	.90	.67
946-0320	4T222	.8 x .8	20x20	105	12%	5.38	4.75	3.59
946-0400	4T223	.8 x .8	20x20	125	14%	6.88	6.10	4.59

ROUND SOLAR CELLS

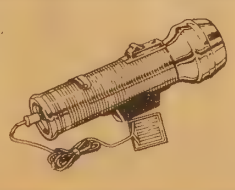
Stock No.	Mfr's Type	Diameter In.	Diameter mm	Min. Curr. A @ .45V	Conv. Efficiency	EACH 1-9	EACH 10-99	EACH 100-Up
946-0480	81T233	4"	100	2.15	12%	29.45	22.13	17.62
946-0440	44T229	3"	75	1.2	12%	17.00	12.78	10.18
946-0410	25T203	2¼"	56	0.55	10%	10.00	8.90	6.68



SOLAR ENERGY FAN CUBE

See solar electricity working for you in this handcrafted 3¾" clear plastic cube containing silicon solar cells that generate electricity when exposed to light, energizing the fan motor. The fan blade rotates at a speed relative to the amount of available light. Demonstrates the solar power of the future. Produces 1.2 V at 125 mA.

946-0001 ..... **Each 20.88**



EMERGENCY SOLAR FLASHLIGHT

This flashlight receives all of its energy from the sun. Use it as an ordinary flashlight in car or home, then place the detachable solar cell array in sunlight for no-cost recharging. Blocking diode keeps batteries charging whenever the sun shines. Has magnetic clamp. 7¼" long. Wt. (w/batteries) 12 oz. Instructions included.

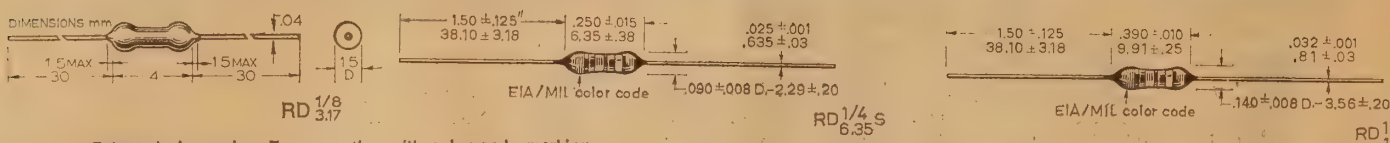
946-0002 Type 102 ..... **Each 23.38**

Carbon Film and Carbon Resistors

RESISTOR INDEX

Carbon Resistors
Airco Speer 58
Carbon Film Mini. Resistors
Airco Speer 58
Allied 58
Carbon Film Resistor
Allied 58
Precision Resistors
TRW/IRC 59
Resistor Assortment
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Clarostat 61, 62
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Ultronix 61

ALLIED 5% CARBON FILM MINIATURE RESISTORS BELOW 10% CARBON PRICES



Extremely low noise. Epoxy coating with color code marking.

TEMPERATURE CHARACTERISTICS (PPM/°C)

Operating Temperature Range −25°C to +125°C

Type	0 to −500	0 to −700	0 to −1000	Test Method
RD⅛	Under 47 kohm	51 kohm-100 kohm	Over 110 kohm	EIA RS-196A
RD¼S	Under 100 kohm	110 kohm-680 kohm	.....	5.2.4
RD½SD	Under 100 kohm	110 kohm-680 kohm	.....	.....

NOISE CHARACTERISTICS (μv/v)

Type	0.1	0.3	0.6
RD⅛	.....	Under 10 kohm	11 kohm-47 kohm
RD¼S	Under 10 kohm	11 kohm-100 kohm	110 kohm-680 kohm
RD½SD	Under 10 kohm	11 kohm-270 kohm	300 kohm-680 kohm

PRICES (Minimum Quantity 10)

Stock No.	Type	Watts	Values See Table Below	EACH 10-99	100-999	1000-4999	5000-Up
525-0XXX	RD⅛	⅛	4.7 ohm-680 kohm	.13	.09	.06	.04
525-1XXX	RD¼S	¼	4.7 ohm-680 kohm	.10	.06	.03	.02
525-2XXX	RD½SD	½	4.7 ohm-680 kohm	.10	.06	.03	.02

ALLIED 5% CARBON FILM RESISTORS VOLUME PRICING

Minimum Order: 10,000 pieces, assorted.

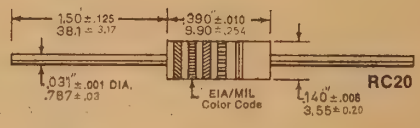
Stock No.	Type	Watt	Values See Table Below	Price Per Thousand
525-1XXX	RD¼S	¼	4.7 ohm-680 kohm	10,000 Lot ... 17.50
525-2XXX	RD½SD	½	4.7 ohm-680 kohm	10,000 Lot ... 17.50

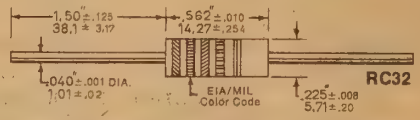
Contact Allied For Quotes on Tape And Reel. Minimum Quantity 5,000 Per Value.

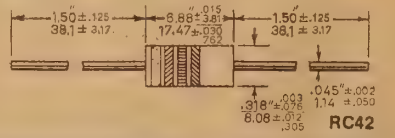
RC CARBON COMPOSITION RESISTORS

These ¼, ½, 1 and 2 watt composition resistors meet or exceed all requirements specified by MIL-R-11 and RS-172. Heavy coating of 100% pure tin on lead wires for superior soldering characteristics even after extended storage. Operation at full wattage rating at 70°C without derating.









5% TOLERANCE
ALL VALUES WITHIN SPECIFIED RANGE AVAILABLE

Stock No.	MIL Equiv.	Watts	Wire AWG	Values See Table Below	EACH 10-99	100-499	500-999	1000-Up
824-1XXX	RC07	¼	# 22	2.7 Ohms to 20 Megohms	.13	.08	.06	.04
824-3XXX	RC20	½	# 20	2.7 Ohms to 20 Megohms	.13	.08	.06	.04
824-5XXX	RC32	1	# 18	10 Ohms to 20 Megohms	.15	.11	.10	.08
720-7XXX	RC42	2	# 17	10 Ohms to 1 Megohm	.27	.23	.20	.15

A MINIMUM OF 10 PIECES PER ITEM PER VALUE MUST BE ORDERED

STANDARD RESISTANCE VALUES

TO COMPLETE ALLIED STOCK NO., INSERT 3 DIGIT NO. SHOWN IN XXX COLUMN AFTER VALUE DESIRED, IN PLACE OF XXX IN STOCK NO.

Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Megs	XXX	Megs	XXX
2.7	041	30	123	160	230	750	338	3600	441	22k	585	150k	740	1.0	877	4.7	916
3.0	042	33	130	180	237	820	343	3900	446	24k	592	180k	751	1.1	881	5.1	917
3.3	043	*36	135	200	243	910	351	4700	461	27k	603	200k	759	1.2	886	5.6	918
3.9	046	39	140	220	248	1000	356	5100	467	30k	611	220k	765	1.3	890	6.2	919
4.7	049	47	153	240	255	1100	361	5600	473	33k	617	270k	783	1.5	900	6.8	920
5.1	051	51	160	270	263	1200	366	6200	482	39k	636	300k	790	1.8	903	7.5	921
5.6	053	56	166	300	270	1500	380	6800	489	47k	650	330k	796	2.0	905	8.2	922
6.8	055	68	178	330	276	1600	383	7500	498	51k	657	390k	811	2.2	907	9.1	923
8.2	057	75	185	390	288	1800	393	8200	504	56k	666	470k	825	2.4	908	10.0	924
9.1	058	82	190	430	296	2000	400	10k	522	62k	677	510k	830	2.7	909	12.0	927
10	060	100	202	470	302	2200	405	11k	528	68k	685	560k	836	3.0	911	15.0	929
15	081	110	206	510	308	2400	412	12k	533	82k	703	680k	850	3.3	912	18.0	933
20	098	120	212	560	315	2700	421	15k	550	91k	712	910k	871	3.6	913	20.0	935
22	102	*130	218	620	324	3000	427	18k	565	100k	717	....	...	3.9	914	....	...
27	117	150	226	680	330	3300	433	20k	575	120k	727	....	...	4.3	915	....	...

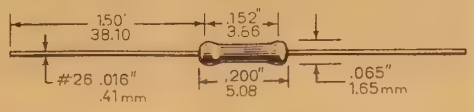
*Available in 525-1XXX Only

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

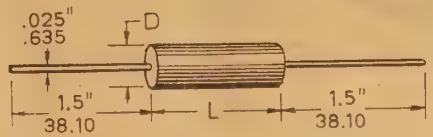
Metal Film and Wirewound Resistors and Networks

MIL-TYPE METAL FILM 1% TOLERANCE RESISTORS

- For Precision Instrumentation
- Offer Low Electrical Noise
- High Stability Under Load
- Precise Tolerances and Temperature Coefficients
- Minimum Order, 10 Pieces



MMC



T2

APPLICATIONS

Particularly suited for applications requiring low electrical noise, stability under load, precise temperature coefficients and tolerances, uniform performance and repeatability.

Applications include: precision instrumentation; computer peripherals and mainframes; missile and aircraft systems; sensing and measuring devices. Matching of temperature coefficients, tolerances and ratios available between pairs of sets, between different values, styles.

VOLTAGE COEFFICIENT

Voltage coefficient when measured between 1/10 and full rated voltage is typically less than 0.5 parts per million per volt for all values. On low and medium values, voltage coefficient is essentially zero.

ELECTRIC NOISE

Metal Film resistors have low noise levels due to minute size of particles which comprise the film. Average 0.10 μV per volt (—20 dB) over standard resistance ranges for a decade of frequency, with low and intermediate values below 0.05 μV per volt (—30 dB).

FREQUENCY RESPONSE

Excellent high frequency response that is essentially flat to 5 MHz.

TEMPERATURE COEFFICIENTS

High-stability evaporated metal film resistors available in one temperature tolerance.

MIL-R-10509 Char.	IRC T.C. Code	Temperature Coefficient †	Temperature Range
C	T2	0 ± 50PPM/°C	—55° to +175°C

†Indicates parts per million per degree centrigrade (100 PPM equals 0.01%.) T.C. code marking is combined with the code for date of manufacture.

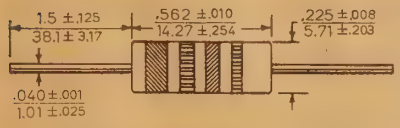
MINIMUM ORDER, 10 PIECES
ORDERING INFORMATION — See Table below for resistance values.

REPLACE XXX IN STOCK NO. WITH APPROPRIATE 3 DIGIT NUMBER FROM VALUES TABLE

Stock No.	Mfr's Type	MIL Style	MIL Char.	IRC T.C. Code	Resistance Range Ohms	Watts at 70 C IRC	Watts at 70 C MIL	Watts at 125 C IRC	Watts at 125 C MIL	Volts MIL Max.	Body Style	Maximum Size, Inches L	Maximum Size, Inches D	Maximum Size, Inches AWG	EACH 10-49	EACH 50-99	EACH 100-249	EACH 250-Up
832-6XXX	MMC	RN50	C	T2	30.1-100k	½	⅛	¼	1/20	200	C	.170	.075	#26	1.00	.58	.41	.36
831-6XXX	T2-55 CEA	RN55	C	T2	30.1-301k 357k-499k	½	⅛	¼	1/10	200	C	.265 .281	.098 10	#22 (.025)	.60	.50	.28	.18
831-2XXX	T2-60 CCA	RN60	C	T2	30.1-499k	½	¼	¼	⅛	250	C	.40	.148	#22 (.025)	.60	.50	.28	.18

Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX	Ohms	XXX
30.1	125	121	213	316	273	806	342	2210	406	3570	440	6810	490	11k	528	182k	566	30.1k	612	51.1k	658	93.1k	713	249k	777
49.9	157	150	226	332	277	825	345	2430	413	3830	445	7500	498	12.1k	535	20k	575	33.2k	618	61.9k	675	97.6k	716	301k	791
51.1	161	200	243	348	280	909	350	2490	415	4020	450	8250	505	12.4k	536	22.1k	586	36.5k	631	68.1k	686	100k	717	357k	803
56.2	167	221	250	402	292	1000	356	2740	422	4750	462	8450	507	13k	538	22.6k	588	40.2k	638	69.8k	688	121k	728	475k	826
75.0	185	243	256	475	303	1210	367	3010	428	4870	463	9090	513	14.7k	547	23.7k	591	46.4k	649	75.0k	694	150k	740	499k	828
86.6	193	249	257	499	306	1500	380	3160	431	4990	465	9530	518	15k	550	24.9k	594	47.5k	651	82.5k	705	200k	759	....	...
90.9	196	274	265	604	322	2000	400	3320	435	5110	468	10k	522	15.8k	552	25.5k	597	48.7k	653	84.5k	706	221k	766	....	...
100	202	301	271	750	338	2150	403	3480	437	6190	481	10.2k	523	17.4k	561	27.4k	604	49.9k	655	90.9k	711	226k	767	....	...

BWH 5% 2-WATT FIXED WIREWOUND RESISTORS



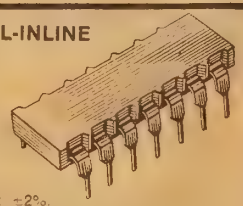
MINIMUM ORDER 10 PIECES

Type BWH 2-Watt Fixed Wirewound. Available in values up to 1800 ohms. 5% tolerance. Rated at 2-watts up to 158°F ambient temperature. Manufactured to meet MIL-R-11D specifications. EIA (RETM) coded for easy identification: wide first band.

Stock No.	Mfr's Type	Ohms	EACH 10-99	EACH 100-249	EACH 250-499	EACH 500-Up
823-1001	BWH.10	.10	.50	.40	.35	.15
823-1005	BWH.15	.15	.50	.40	.35	.15
823-1007	BWH.18	.18	.50	.40	.35	.15
823-1008	BWH.20	.20	.50	.40	.35	.15
823-1009	BWH.22	.22	.50	.40	.35	.15
823-1011	BWH.24	.24	.50	.40	.35	.15
823-1012	BWH.27	.27	.50	.40	.35	.15
823-1013	BWH.30	.30	.50	.40	.35	.15
823-1014	BWH.33	.33	.50	.40	.35	.15
823-1017	BWH.39	.39	.50	.40	.35	.15
823-1018	BWH.43	.43	.50	.40	.35	.15
823-1019	BWH.47	.47	.50	.40	.35	.15
823-1021	BWH.51	.51	.50	.40	.35	.15
823-1022	BWH.56	.56	.50	.40	.35	.15
823-1024	BWH.68	.68	.50	.40	.35	.15
823-1026	BWH .75	.75	.50	.40	.35	.15
823-1027	BWH.82	.82	.50	.40	.35	.15
823-1029	BWH1 0	1.0	.50	.40	.35	.15
823-1033	BWH1.3	1.3	.50	.40	.35	.15
823-1034	BWH1.5	1.5	.50	.40	.35	.15
823-1037	BWH1.8	1.8	.50	.40	.35	.15
823-1038	BWH2 0	2.0	.50	.40	.35	.15
823-1039	BWH2.2	2.2	.50	.40	.35	.15
823-1041	BWH2.7	2.7	.50	.40	.35	.15
823-1042	BWH3 0	3.0	.50	.40	.35	.15
823-1043	BWH3.3	3.3	.50	.40	.35	.15

Stock No.	Mfr's Type	Ohms	EACH 10-99	EACH 100-249	EACH 250-499	EACH 500-Up
823-1049	BWH4 7	4 7	.50	.40	.28	.10
823-1051	BWH5.1	5 1	.50	.40	.28	.10
823-1053	BWH5.6	5.6	.50	.40	.28	.10
823-1056	BWH7.5	7.5	.50	.40	.28	.10
823-1057	BWH8.2	8.2	.50	.40	.28	.10
823-1060	BWH10	10	.40	.34	.28	.10
823-1081	BWH15	15	.40	.34	.28	.10
823-1098	BWH20	20	.40	.34	.28	.10
823-1108	BWH24	24	.40	.34	.28	.10
823-1123	BWH30	30	.40	.34	.28	.10
823-1153	BWH47	47	.40	.34	.28	.10
823-1166	BWH56	56	.40	.34	.28	.10
823-1185	BWH75	75	.40	.34	.28	.10
823-1202	BWH100	100	.40	.34	.28	.10
823-1212	BWH120	120	.40	.34	.28	.10
823-1226	BWH150	150	.40	.34	.28	.10
823-1237	BWH180	180	.40	.34	.28	.10
823-1243	BWH200	200	.40	.34	.28	.10
823-1248	BWH220	220	.40	.34	.28	.10
823-1270	BWH300	300	.40	.34	.28	.10
823-1296	BWH430	430	.40	.34	.28	.10
823-1302	BWH470	470	.40	.34	.28	.10
823-1343	BWH820	820	.40	.34	.28	.10
823-1356	BWH1000	1000	.40	.34	.28	.10
823-1380	BWH1500	1500	.40	.34	.28	.10
823-1393	BWH1800	1800	.40	.34	.28	.10

SERIES 760 DUAL-INLINE CERMET RESISTOR NETWORKS



Resistance tolerance: ±2%. Power Rating: 1½ watts @ 70 per module. Temperature coefficient: Overall, ±300 ppm/°C; TC tracking, 50 ppm/°C. Substrate material: alumina. Lead material: solder coated amzirc. Lead strength: 5 lb. pull. Load Life: 0.1 W per resistor at 70°C for for 1000 hours.

760-3 7-RESISTOR NETWORKS

Stock No.	Mfr's Type	Ohms	EACH 1-49	EACH 50-99	EACH 100-499	EACH 500-Up
745-6015	760-3-150	150	1.75	1.40	.93	.66
745-6020	760-3-220	220	1.75	1.40	.93	.66
745-6025	760-3-330	330	1.75	1.40	.93	.66
745-6040	760-3-1k	1k	1.75	1.40	.93	.66
745-6050	760-3-2.2k	2.2k	1.75	1.40	.93	.66
745-6070	760-3-10k	10k	1.75	1.40	.93	.66

760-1 13-RESISTOR NETWORKS

745-7035	760-1-1k	1k	1.78	1.42	.95	.68
745-7075	760-1-10k	10k	1.78	1.42	.95	.68

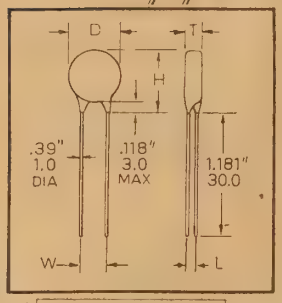
Surge Absorbers and Resistor Kits

NEW!



ZNR® TRANSIENT/SURGE ABSORBER TYPE D RESISTORS

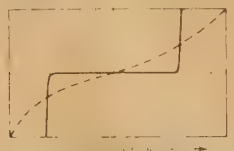
ZNRs are zinc oxide non-linear resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-I characteristic curve. It gives your circuit clamping protection in either direction. The ZNR thus provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes. Applications include: protection of semiconductors such as transistors, diodes, ICs, thyristors, triacs, etc. Protection of various electronic equipment including: broadcasting, communications equipment, traffic and railway signal systems, automatic control devices for power distribution, waterworks and home entertainment equipment. Surge absorption of relays and electromagnetic values. Absorption of surges generated within equipment such as TVs. Operating temperature: −40°C to +85°C. Storage temperature: −40°C to +125°C. The ZNR is approved by Underwriters Laboratory (UL) file number E37995A.





A: Original surge wave form
B: Clamping voltage using gap type arrestor
C: Clamping voltage using ZNR
τ: Discharge lag

Bilateral and symmetrical V-I characteristic curve. The ZNR can, therefore, be used both in AC and DC circuits, for protection of either positive or negative transients.



DIMENSIONS: mm (inch)

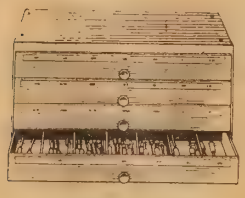
Case Code	D Max.	T ±1 (.04)	W ±1 (.04)	H Max.	L ±1 (.04)
A	9.0 (.354)	4.2 (.165)	5.0 (.197)	12.0 (.472)	2.0 (.079)
B	9.0 (.354)	5.2 (.205)	5.0 (.197)	12.0 (.472)	3.0 (.118)
C	13.5 (.531)	4.6 (.181)	7.5 (.295)	16.5 (.650)	2.2 (.087)
D	13.5 (.531)	3.7 (.146)	7.5 (.295)	16.5 (.650)	1.4 (.055)
E	13.5 (.531)	4.1 (.161)	7.5 (.295)	16.5 (.650)	1.8 (.071)
F	13.5 (.531)	4.0 (.157)	7.5 (.295)	16.5 (.650)	1.7 (.067)
G	17.0 (.669)	4.6 (.181)	7.5 (.295)	20.0 (.787)	2.2 (.087)
H	17.0 (.669)	4.8 (.189)	7.5 (.295)	20.0 (.787)	2.4 (.094)
J	23.0 (.906)	5.0 (.197)	10.0 (.394)	27.0 (1.063)	2.4 (.094)
K	23.0 (.906)	5.3 (.209)	10.0 (.394)	27.0 (1.063)	2.7 (.106)

CROSS-REFERENCE

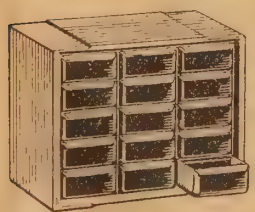
PANASONIC ZNR	GE-MOV
ERZ-C07DK201	V130LA1 V130LA2
ERZ-C14DK201	V130LA10A
ERZ-C14DK241	V150LA10A
ERZ-C20DK201	V130LA20A V130LA20B
ERZ-C20DK241	V150LA20A V150LA20B

Stock No.	Mfr's. Type ERZ	Case Code	Volt* Range @ 1mA DC	Max. Volt VAC RMS	Max. Volt VDC	Max. Clamp. Volt.	Watt. Energy (W)	Watt. Energy (J)	Surge Curr. 8x20usec. (A)	Typ. Cap. @ 1KHz (pF)	EACH 1-49	EACH 50-249	EACH 250-999	EACH 1K-Up
882-1010	C07DK201	A	185-225	130	170	340V	0.2	2.5	250	130	.87	.69	.55	.38
882-1020	C07DK361	B	324-396	230	300	595V	0.2	5.0	250	80	.93	.74	.59	.42
882-1030	C10DK201	C	185-225	130	170	340V	0.4	5.0	500	400	.90	.72	.57	.40
882-1040	C10DK220	D	20-24	14	18	43V	0.05	0.8	250	6000	.87	.69	.55	.38
882-1050	C10DK390	E	35-43	25	31	77V	0.05	1.4	250	2600	.87	.69	.55	.38
882-1060	C10DK470	F	42-52	30	38	93V	0.05	1.8	250	2200	.87	.69	.55	38
882-1070	C14DK201	G	185-225	130	170	340V	0.6	10.0	1000	1000	1.03	.82	.66	.46
882-1080	C14DK241	H	216-264	150	200	395V	0.6	10.0	1000	850	1.03	.82	.66	.46
882-1090	C20DK201	J	185-225	130	170	340V	0.8	20.0	2000	2300	1.17	.93	.75	.52
882-1110	C20DK241	K	212-264	150	200	395V	0.8	20.0	2000	1500	1.17	.93	.75	.52

*Various voltages to 25,000V and current ratings to 20,000A available upon request.



FREE WITH PURCHASE OF RESISTOR ASSORTMENT



RESISTOR KITS

METAL RESIST-O-CABINET. Resist-O-Cabinet (illustrated at left) is free with the purchase of any of the following resistor kits: 3A, 4A, 5A, 6B and 7A. Cabinet has four non-spill drawers and twenty-eight compartments. Durable blue and silver finish. 5⅝x5¹⁵⁄₁₆x10⅞" (142.8x150.8x276.2mm).

RESISTOR KIT 5A. Contains 125 10% tolerance fixed carbon composition resistors rated 1 watt at 70°C ambient temperature. Voltage rating: 500V. 1½" solder leads. 28 resistance values: 7 each: 1000, 10K, 27K, 47K, 100K, 270K, 470K, 1.0 meg; 5 each: 2200, 4700, 22K; 4 each: 33K, 39K, 68K; 3 each: 47, 100, 150, 220, 270, 470, 1500, 2700, 3300, 15K, 150K, 220K, 2.2 meg, 4.7 meg. Shpg. wt. 4¾ lbs. (2.15 kg).
961-0102. 1-4 ..... Each 29.70 5-Up ..... Each 25.48

RESISTOR KIT 7A. Contains 150 10% tolerance fixed carbon composition resistors rated ¼ watt at 70°C ambient temperature. Voltage rating: 250V. 1½" solder leads. Contains: 10 each: 1000,4700, 10K; 8 each: 2200, 22K, 100K; 6 each: 100, 470, 1500, 6800, 15K, 33K, 47K; 5 each: 3300, 1.0 meg; 4 each: 150, 220, 2700, 3900, 18K; 3 each: 47, 270, 680, 27K, 39K, 68K, 220K, 470K. Shpg. wt. 4¼ lbs. (1.92 kg)
961-0104. 1-4 ..... Each 26.00 5-Up ..... Each 22.31

DESIGN ENGINEER CARBON FILM RESISTOR KITS. These kits include a balanced assortment of popular values of high-performance, high-reliability ¼ watt or ½ watt carbon film resistors for applications requiring superior performance. Low noise resistors feature welded cap and lead construction. Tolerance: ±5%. Values are color-banded per EIA specs. Conformal coating exceeds requirements of MIL-R-11F. **Cabinet Type RD¼SK** contains 800-¼ watt resistors. **Cabinet Type RD½SDK** contains 600-½ watt resistors.
525-1100. Type RD¼SK ..... Each 39.95
525-2200. Type RD½SDK ..... Each 39.95

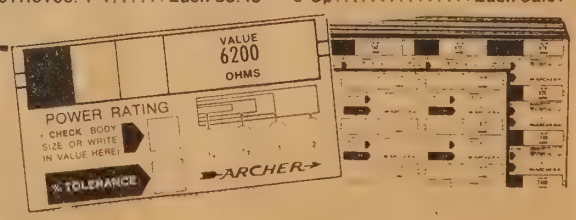
RESISTOR KIT 6B. Contains 153 carbon composition 10% tolerance insulated resistors rated ½ watt, 1 watt and 2 watt. **½ watt.** 4 each: 100, 47K, 100K, 270K 470K, 1.0 meg; 3 each: 4700, 10K, 220K, 2.2 meg; 2 each: 47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 3300, 15K, 22K, 27K, 33K, 39K, 68K, 150K, 4.7 meg. **1 watt.** 4 each: 1000, 10K, 27K, 100K, 1.0 meg; 3 each: 47K 470K, 2.2 meg; 2 each: 47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 3300, 4700, 15K, 22K, 33K, 39K, 68K, 150K, 220K, 270K, 4.7 meg. **2 watt.** 1 each: 47, 100, 470, 4700, 10K, 22K, 47K. Wt. 5 lbs. (2.27 kg).
961-0103. 1-4 ..... Each 31.45 5-Up ..... Each 26.99

RESISTOR KIT 4A. Comprehensive selection of 150 10% tolerance fixed carbon composition resistors rated ½ watt at 70° ambient temperature. Rated 350 V. 1½" solder leads. Contains: 8 each: 1000, 47K, 100K, 270K, 1.0 meg; 7 each: 3700, 10K, 220K, 2.2 meg; 5 each: 3300, 22K, 27K, 33K, 330K, 4.7 meg; 4 each: 100, 470, 1500, 2200, 2700, 56K, 68K, 3.3 meg; 3 each: 47, 220, 270, 10 meg. Wt. 4½ lbs. (2.04 kg).
961-0101. 1-4 ..... Each 24.45 5-Up ..... Each 20.98

RESISTOR KIT 3A. Balanced assortment of 120 10% tolerance fixed composition resistors. Rated 2 watts at 70° ambient temperature. Contains: 7 each: 8200, 10K, 22K, 47K; 5 each: 1000, 6800, 15K, 100K; 4 each: 100, 330, 470, 1500, 2200, 3300, 4700, 27K, 1.0 meg; 3 each: 47, 82, 150, 220, 270, 3900, 220K, 470K; 2 each: 4.7, 10, 22, 68; 1 each: 15, 27, 33, 39. Wt. 4½ lbs. (2.04 kg).
961R0100. 1-4 ..... Each 38.45 5-Up ..... Each 32.97

ALLIED PRE-PRINTED LABELS FOR RESISTOR BINS

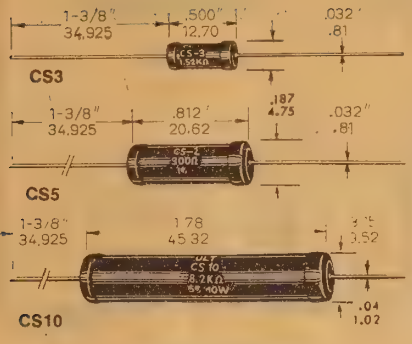
Bin labels give you "fool-proof" labeling. Ideal where resistors are stored or used. Each tag has the correct resistor color codes and the values in ohms shown in numerical figures. Each package contains 167 ohm values from 2.7 ohms to 22 megs. Locate any resistor at a glance with separate color-coding and ohm value printed out for quick identification. 16 sheets per set—each sheet with 16 tags, perforated and with gummed back. Plus, two blank sheets for special ohm values. Tags may be taped or stapled to compartments or bins to meet individual requirements. Tag size: 3⅝" x 1⅛" (92 x 47.62 mm). Shipping weight 10 oz. (283.4 gm).
707-9999. 1-3 ..... Per Set 12.88 4-Up ..... Per Set 9.95



See Page 2 for the Allied Electronics Facility Nearest You

Power Resistors

TYPE CS 1% PRECISION SILICONE COATED POWER RESISTORS



Silicone coated precision power wire-wound resistors with high thermal conductivity materials. Element: Low temperature co-efficient, high resistivity, nickel-chromium or nickel-copper alloys wound and welded using advanced proprietory techniques. Coating: Ultrocoat, a proprietory blend of pure silicone resins. Leads: Hot-tin dipped copper weld leads, solderable or weldable. Tolerance is ±1%. Meets or exceeds MIL-R-26 for RW-69 and RW-78. Av. shpg. wt. per 25 is 4 oz.

TYPE CS3 — 3 WATT

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-99	100-Up
974-4004	CS3	1	.73	.62	.51	.38
974-4027	CS3	2	.73	.62	.51	.38
974-4040	CS3	3	.73	.62	.51	.38
974-4054	CS3	4	.73	.62	.51	.38
974-4064	CS3	5	.73	.62	.51	.38
974-4090	CS3	10	.73	.62	.51	.38
974-4124	CS3	25	.73	.62	.51	.38
974-4157	CS3	50	.73	.62	.51	.38
974-4184	CS3	100	.73	.62	.51	.38
974-4200	CS3	150	.73	.62	.51	.38
974-4210	CS3	200	.73	.62	.51	.38
974-4300	CS3	1k	.73	.62	.51	.38
974-4320	CS3	1.5k	.73	.62	.51	.38
974-4424	CS3	10k	.85	.74	.59	.48

TYPE CS5 — 5 WATT

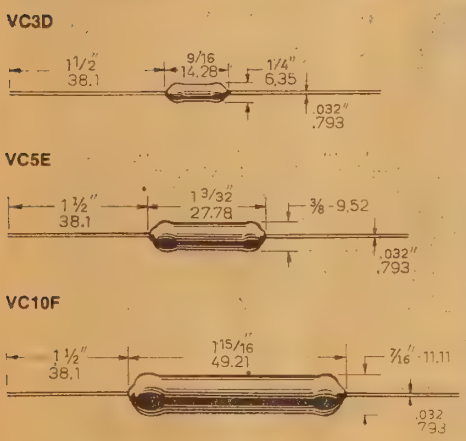
Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-99	100-Up
974-5004	CS5	1	.79	.67	.56	.38
974-5064	CS5	5	.79	.67	.56	.38
974-5090	CS5	10	.79	.67	.56	.38
974-5104	CS5	15	.79	.67	.56	.38
974-5114	CS5	20	.79	.67	.56	.38
974-5157	CS5	50	.79	.67	.56	.38
974-5184	CS5	100	.79	.67	.56	.38
974-5210	CS5	200	.79	.67	.56	.38
974-5224	CS5	250	.79	.67	.56	.38
974-5260	CS5	500	.79	.67	.56	.38
974-5300	CS5	1k	.79	.67	.56	.38
974-5320	CS5	1.5k	.79	.67	.56	.38
974-5357	CS5	3.3k	.79	.67	.56	.38
974-5384	CS5	5k	.79	.67	.56	.38

TYPE CS10 — 10 WATT

974-6090	CS10	10	.85	.74	.59	.48
974-6424	CS10	10k	.85	.74	.59	.48

Silicone-Coated 1% Resistors At Vitreous Enamel Resistor Prices

TYPE VC 5% VITREOUS ENAMEL MOLDED POWER RESISTORS



Wirewound resistors with molded vitreous enamel coating for improved heat insulation and heat dissipation. Uniform size permits mounting in metal clips for heatsink effect allowing up to 100% wattage increase. Uniform insulation thickness for 1000VAC breakdown rating. Will withstand high humidity and immersion in salt solution. 1½" tinned leads. Tolerance is ±5%. Wt. Per 25 is 4 oz.

TYPE VC3D — 3¼ WATT

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-99	100-Up
880-4004	VC3D	1	.73	.62	.51	.38
880-4027	VC3D	2	.73	.62	.51	.38
880-4040	VC3D	3	.73	.62	.51	.38
880-4054	VC3D	4	.73	.62	.51	.38
880-4064	VC3D	5	.73	.62	.51	.38
880-4090	VC3D	10	.73	.62	.51	.38
880-4094	VC3D	11	.73	.62	.51	.38
880-4124	VC3D	25	.73	.62	.51	.38
880-4157	VC3D	50	.73	.62	.51	.38
880-4184	VC3D	100	.73	.62	.51	.38
880-4200	VC3D	150	.73	.62	.51	.38
880-4210	VC3D	200	.73	.62	.51	.38
880-4300	VC3D	1k	.73	.62	.51	.38
880-4320	VC3D	1.5k	.73	.62	.51	.38
880-4424	VC24	10k	.85	.74	.59	.48

TYPE VC5E — 6.5 WATT

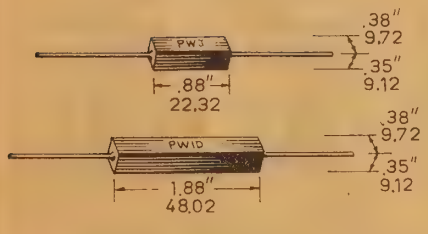
Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-99	100-Up
880-5004	VC5E	1	.79	.67	.56	.38
880-5064	VC5E	5	.79	.67	.56	.38
880-5090	VC5E	10	.79	.67	.56	.38
880-5104	VC5E	15	.79	.67	.56	.38
880-5114	VC5E	20	.79	.67	.56	.38
880-5157	VC5E	50	.79	.67	.56	.38
880-5184	VC5E	100	.79	.67	.56	.38
880-5210	VC5E	200	.79	.67	.56	.38
880-5224	VC5E	250	.79	.67	.56	.38
880-5260	VC5E	500	.79	.67	.56	.38
880-5300	VC5E	1k	.79	.67	.56	.38
880-5320	VC5E	1.5k	.79	.67	.56	.38
880-5357	VC5E	3.3k	.79	.67	.56	.38
880-5384	VC5E	5k	.79	.67	.56	.38

TYPE VC10F — 11 WATT

880-6090	VC10F	10	.85	.74	.59	.48
880-6424	VC10F	10k	.85	.74	.59	.48

TYPES PW-5 5-WATT AND PW-10 10-WATT RESISTORS

Axial lead resistors. Precisely wound element has glass fiber core and is sealed in rectangular ceramic case. Tolerance ±5%. Power ratings, 25°C ambient. 1½" leads. Type PW-5 dimensions: ⅞x⅜"x$^{11}/_{32}$" (22.22x9.52x8.73mm). Type PW-10 dimensions: 1⅞x⅜x$^{11}/_{32}$" (47.62x9.52x8.73mm). Wt. 2 oz. (56.6 gm).



TYPE PW5 — 5 WATT

Stock No.	Mfr's Type	Ohms	EACH 1-49	50-249	250-499	500-Up
962-8029	PW5	1	.43	.36	.24	.14
962-8038	PW5	2	.43	.36	.24	.14
962-8042	PW5	3	.43	.36	.24	.14
962-8047	PW5	4	.43	.36	.24	.14
962-8050	PW5	5	.43	.36	.24	.14
962-8056	PW5	7.5	.43	.36	.24	.14
962-8060	PW5	10	.43	.36	.24	.14
962-8081	PW5	15	.43	.36	.24	.14
962-8112	PW5	25	.43	.36	.24	.14
962-8158	PW5	50	.43	.36	.24	.14
962-8202	PW5	100	.43	.36	.24	.14
962-8226	PW5	150	.43	.36	.24	.14
962-8243	PW5	200	.43	.36	.24	.14
962-8258	PW5	250	.43	.36	.24	.14
962-8270	PW5	300	.43	.36	.24	.14
962-8307	PW5	500	.43	.36	.24	.14
962-8356	PW5	1k	.43	.36	.24	.14
962-8380	PW5	1.5k	.43	.36	.24	.14
962-8400	PW5	2k	.43	.36	.24	.14
962-8416	PW5	2.5k	.43	.36	.24	.14
962-8427	PW5	3k	.43	.36	.24	.14
962-8466	PW5	5k	.43	.36	.24	.14

TYPE PW10 — 10 WATT

Stock No.	Mfr's Type	Ohms	EACH 1-49	50-249	250-499	500-Up
962-9029	PW10	1	.45	.35	.25	.17
962-9038	PW10	2	.45	.35	.25	.17
962-9050	PW10	5	.45	.35	.25	.17
962-9056	PW10	7.5	.45	.35	.25	.17
962-9060	PW10	10	.45	.35	.25	.17
962-9081	PW10	15	.45	.35	.25	.17
962-9098	PW10	20	.45	.35	.25	.17
962-9112	PW10	25	.45	.35	.25	.17
962-9158	PW10	50	.45	.35	.25	.17
962-9185	PW10	75	.45	.35	.25	.17
962-9202	PW10	100	.45	.35	.25	.17
062-9226	PW10	150	.45	.35	.25	.17
962-9243	PW10	200	.45	.35	.25	.17
962-9270	PW10	300	.45	.35	.25	.17
962-9307	PW10	500	.45	.35	.25	.17
962-9356	PW10	1k	.45	.35	.25	.17
962-9380	PW10	1.5k	.45	.35	.25	.17
962-9400	PW10	2k	.45	.35	.25	.17
962-9427	PW10	3k	.45	.35	.25	.17
962-9466	PW10	5k	.51	.39	.30	.19
962-9522	PW10	10k	.51	.39	.30	.19

Wirewound, Adjustable & Fixed Power Resistors

WIREWOUND RESISTORS WITH LUGS AND WIRE LEADS

Wirewound resistors designed for applications such as voltage dropping, bias supplies, bleeders. Have thick vitreous enamel coating for excellent heat conduction and insulation. Fully protected against humidity and moisture. Tolerance is ±5%. **Please complete Stock Numbers by referring to Table A.** Average ship. wt. per 25, 8 oz.

STYLE VPR-5F/HHJ — 8 WATT

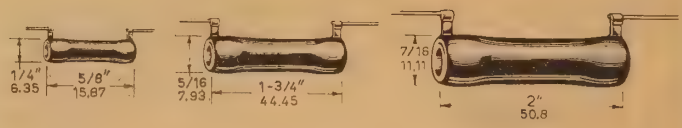
Stock No.	Stock Values (Ohms) See Table "A" at Right	EACH 1-9	10-24	25-99	100-Up
877-6XXX	5, 150	.65	.53	.43	.35

STYLE VPR-10F/1HJ — 12 WATT

877-7XXX	4, 5, 7.5, 10, 15, 20, 25, 50, 75, 100, 150, 200, 300, 500, 1K	.70	.59	.47	.38
877-7XXX	1.5K, 3K, 4K, 4.5K, 5K	.75	.63	.51	.41
877-7424	10K	.88	.73	.58	.47
877-7504	50K	1.15	.96	.76	.62

STYLE VPR-20H/2HJ — 20 WATT

877-8XXX	5, 10, 25, 75, 100, 1K	.80	.67	.53	.43
877-8424	10K	.98	.80	.65	.53
877-8537	100K	1.55	1.29	1.03	.83



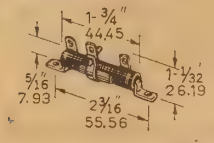
8W 12W 20W

TABLE "A" STOCK VALUES

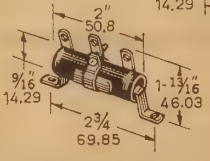
Complete Allied Stock No. by replacing Allied Stock No. suffix XXX with 3-digit number shown in column XXX directly opposite desired ohm value.

Ohm	XXX	Ohm	XXX	Ohm	XXX	Ohm	XXX	Ohm	XXX
4.0	054	20	114	150	200	1000	300	5000	384
5.0	064	25	124	200	210	1500	320	10K	424
7.5	080	50	157	300	230	3000	354	50K	504
10	090	75	174	500	260	4000	370	100K	537
15	104	100	184			4500	377	....	...

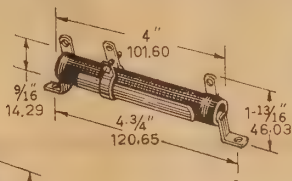
BRACKET-MOUNTED WIREWOUND VITREOUS ENAMEL RESISTORS (See Cross-Reference Below)



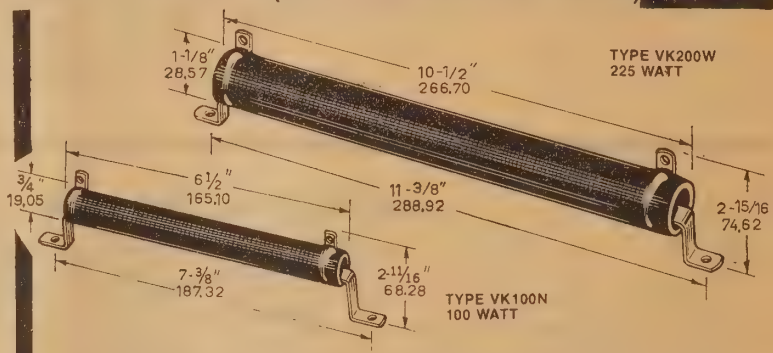
TYPE VP10FA
12 WATT



TYPE VP25KA
25 WATT



TYPE VP50KA
50 WATT



Adjustable Type. For voltage dividing networks, power supplies, transmitters—anywhere adjustable resistance is required. These resistors feature fine alloy wire, precision wound on high quality ceramic cores and insulated by vitreous enamel coatings. Slider lug and mounting brackets are included with each resistor. Resistance tolerance is ±10% of the total resistance value. Wattage rating applies only when the entire resistance is in the circuit; with adjustable lug at intermediate point, rating is reduced in the same proportion. Wattage ratings are for free air mounting. **Important—See Table B (Below) Before Ordering.** Av. shpg. wt. 5-50 watts, 4 oz; 100 watts and up, 1 lb.

Fixed Types. These precision wirewound resistors are especially designed to meet a wide variety of military, industrial and general consumer applications. They offer long life and extremely reliable service. For use as voltage droppers, bias resistors and bleeders in applications where resistance need not be varied. Feature fine alloy wire, wirewound on quality ceramic cores and covered with vitreous enamel coatings—the best conductor of heat for a material which must also be a good electrical conductor. Resistance tolerance: ±5% for values 1 ohm or higher. Wattage ratings are for use in free air. Av. shpg. wt. 5-50 watts, 1.1 oz.; 100 watts and up, 7.5 oz. **See Table B (Below) Before Ordering.**

ADJUSTABLE RESISTORS

VP10FA/1AV — 12 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-10XX	1, 5, 10, 25, 50, 75, 100, 150, 250, 500, 1K	1.35	.80	.69	.64
880-10XX	2K, 5K	1.40	.84	.73	.66
880-1073	10K	1.53	.94	.79	.72

VP25KA/2AV — 25 WATTS

880-11XX	1, 2, 3, 5, 10, 15, 25, 50, 75, 100, 250, 500, 1K	1.28	.89	.75	.64
880-1157	2.5K	1.45	.92	.77	.66

VP50KA/5AV — 50 WATTS

880-12XX	1, 2, 3, 5, 10, 25, 50, 75, 100, 150, 250, 500, 750, 1K	2.08	1.33	1.11	.95
880-1273	10K	2.22	1.45	1.21	1.05
880-1284	50K	2.90	1.95	1.60	1.36

VK100NA/10AV — 100 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-14XX	1, 2	6.73	4.21	3.77	3.23
880-14XX	5, 10	6.20	3.88	3.47	2.97
880-14XX	25, 50, 100, 250, 500, 1K, 5K	5.78	3.63	3.23	2.77

VK200WA/20AV — 225 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-15XX	1, 3, 5	12.28	8.02	6.87	5.89
880-1508	10	9.88	6.18	5.53	4.74
880-15XX	25, 50, 100, 250, 500, 1K, 5K	9.33	5.84	5.22	4.48

CROSS REF./ADJ. RESISTORS

Watts	Clarostat	Mallory	Memcor	Ohmite
12	VP10FA	1AV	AR10-12	210-12
25	VP25KA	2AV	AR-25	210-25
50	VP50KA	5AV	AR-50	210-50
75	VP75KA	7.5AV	AR-75	210-75
100	VK100NA	10AV	AR-100	210-100
225	VK200WA	20AV	AR-225	210-225

FIXED POWER RESISTORS

VP25K/2.5HJ — 25 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-21XX	1, 2, 3, 5, 10, 15, 20, 25, 50, 100, 250, 500, 750, 1K	.85	.72	.68	.46
880-2167	5K	1.00	.74	.59	.48

VP50K/5HJ — 50 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-22XX	1, 2, 3, 4, 5, 10, 25, 50, 100, 150, 500	1.33	1.09	.87	.71

VK100N/10HJ — 100 WATTS

Stock No.	Resistance (Ohms) See Table B	EACH 1-9	10-24	25-99	100-Up
880-2301	1	3.90	2.45	2.18	1.87
880-2304	3	3.53	2.61	1.97	1.69
880-23XX	100, 250, 500	3.15	1.97	1.76	1.51

VK200W/20HJ — 225 WATTS

880-25XX	1, 2, 4, 5	9.85	6.17	5.52	4.73
880-2508	10	7.13	4.47	3.99	3.42
880-25XX	25, 50, 75, 100, 250	6.38	4.00	3.57	3.06

CROSS REF./FIXED RESISTORS

Watts	Clarostat	Mallory	Memcor	Ohmite
12	.....	.....	FR-10-12	270-12
25	VP25K	2.5HJ	FR-25	270-25
50	VP50K	5HJ	FR-50	270-50
100	VK100N	10HJ	FR-100	270-100
175	VK160W	16HJ	FR-160-175	270-175
225	VK200W	20HJ	FR-200-225	270-225

In order to service our customers better if delivery shortages occur, we will ship identical parts from one of three sources.

ORDER INFORMATION — TABLE B

To complete Allied Stock No. replace XX with appropriate code from chart below.

Ohms	XX	Ohms	XX	Ohms	XX	Ohms	XX	Ohms	XX	Ohms	XX
1.0	01	5.0	06	25	12	150	29	1K	48	5K	67
2.0	03	10	08	50	18	250	34	1.5K	53	10K	73
3.0	04	15	09	75	22	500	40	2K	54	50K	84
4.0	05	20	10	100	24	750	44	2.5K	57	100K	92

ATTENTION BUYERS

Make Allied your one-stop headquarters for all your industrial needs. Pay OEM factory prices, slash handling expenses and reduce paperwork in purchasing and receiving. You place one order, receive one shipment and make one disbursement.

Rheostats, Dial Plates and Knobs

VITREOUS-ENAMELED RHEOSTATS

- **Choose from 12½ to 300 Watts in a Wide Range of Resistances**
- **Highly Reliable and Economical**
- **U.L. Recognized**

All porcelain vitreous-enameled, silicon-ceramic for smooth action and electrical control. Choose from 12½ to 300 watts in a wide range of resistances. Rheostats are highly reliable and economical; can not smoke, char, shrink, or shift. Metal-graphite contact brushes, varied to fit current and resistance. Ratings at full setting. U.L. recognized. Type H mounts on panels up to ¼" thick; ¼" shaft; depth behind panel (and diameter), 1⅜" (1⁹⁄₁₆"). ***Less knobs; see knobs, dial plates and handwheel below.*** Shipping weight 8 ounces.

12½ WATT—TYPE R12½

UL approved. Rheostats have three terminals for use as a potentiometer. **Resistance Tolerance:** ±10%. **Running Torque:** 1 to 6 inch oz. **Rotation:** 300°±5%. **Mounting for Panels:** up to ⅛". **Standard Resistance:** 1-5000 ohms. **Shpg. wt.:** 2½ oz.

25 WATT—TYPE R25

Wiper tracks on this rheostat are buffed and polished to assure smooth rotation and uniform wiper contact. A high strength ceramic hub is used to insulate the shaft and bushing from live parts. The wiper design assures minimum backlash. A vitreous enamel bonds core and base together for uniform heat dissipation and structural integrity. Cores on the larger sizes are enameled prior to winding to increase core strength and improve bond between wire and core. UL approved. **Resistance Tolerance:** ±10%. **Running Torque:** .25 to .5 inch-pound. **Rotation:** 300°±5%. **Mounting for Panels:** up to ¼". **Standard Resistance:** 1-5000 ohms. **Shpg. wt.:** ½ lb.

50 WATT—TYPE R50

UL approved rheostats have vitreous enamel bonded core and base. Buffed and polished wiper tracks assure smooth rotation and uniform wiper contact. Rheostats have three terminals to allow use as potentiometers. **Resistance Tolerance:** ±10%. **Running Torque:** .25 to 2 inch-pound. **Rotation:** 300°±5%. **Mounting for Panels:** up to ¼". **Standard Resistance:** 1-10,000 ohms. **Shpg. wt.:** ¾ lb.

100 WATT—TYPE R100

UL approved. Has ¼" dia. shaft and 3⅛" dia. body. Furnished with three terminals for use as potentiometer. **Resistance Tolerance:** ±10%. **Running Torque:** .5 to 2 inch-pound. **Rotation:** 300°±5%. **Mounting for Panels:** up to ¼". **Standard Resistance:** 1-10,000 ohms. **Shpg. wt.:** 1 lb.

150 WATT—TYPE R150

UL approved. Has ¼" dia. shaft and 4" dia. body. Furnished with three terminals to allow use as potentiometer. **Resistance Tolerance:** ±10%. **Running Torque:** 5 to 3 inch-pound. **Rotation:** 300°±5%. **Mounting for Panels:** up to ¼" or by means of F.H. screws. **Standard Resistance:** 1-10,000 ohms. **Shipping wt.:** 1½ lbs.

300 WATT—TYPE R300

6" dia. ⅜" shaft dia. Resis., ±10% 2.38" behind panel; 4⅜" long. Torque, 2.5 to 5.0 lb.-in. Standard mounting—for panels up to 1¼" thick. Use two ¼-20 by 1½" flat head screws. Rotation, 320°+5°. Standard knob, No. 5105. Shpg. wt. 2½ lbs.

12½ WATT—TYPE R12½

Stock No.	Mfr's Type	Ohms	Price Code	Stock No.	Mfr's Type	Ohms	Price Code
875-4003	602	3	A	875-4017	616	500	A
875-4008	607	25	A	875-4019	618	1000	A
875-4010	609	50	A	875-4020	619	1500	A
875-4012	611	100	A	875-4023	622	5000	A

25 WATT—TYPE R25

875-4025	100	1	C	875-4038	113	175	B
875-4027	102	3	B	875-4039	114	250	B
875-4030	105	10	B	875-4040	115	350	B
875-4031	106	15	B	875-4041	116	500	B
875-4032	107	25	B	875-4042	117	750	B
875-4034	109	50	B	875-4043	118	1000	B
875-4035	110	75	B	875-4044	119	1500	B
875-4036	111	100	B	875-4045	120	2500	B
875-4037	112	125	B	875-4047	122	5000	C

50 WATT—TYPE R50

875-4051	203	4	E	875-4063	215	300	D
875-4053	205	8	E	875-4064	216	500	D
875-4054	206	12	D	875-4066	218	1000	D
875-4057	209	35	D	875-4068	220	2500	D
875-4058	210	50	D	875-4070	222	5000	D
875-4062	214	225	D	875-4072	224	10k	E

100 WATT—TYPE R100

875-4074	401	1	H	875-4084	411	100	F
875-4079	406	10	G	875-4087	415	500	F
875-4082	409	50	F	875-4091	421	5000	G

150 WATT—TYPE R150

875-4095	504	5	M	875-4103	512	100	H
875-4098	507	15	J	875-4104	513	150	H
875-4101	510	50	J	875-4106	515	250	H
875-4102	511	75	H	875-4111	525	10k	K

300 WATT—TYPE R300

875-4112	700	1	N	875-4117	706	10	N
875-4114	702	3	N	875-4120	709	50	P
875-4115	704	5	N	875-4128	719	1500	R

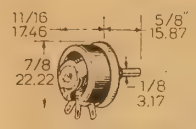
PRICE LOCATOR

Price Code	Each 1-4	5-9	10-24	25-Up
A	6.83	5.46	4.20	3.33
B	7.48	7.14	5.06	3.99
C	8.08	7.54	5.56	4.31
D	9.78	8.00	6.26	5.21
E	10.80	9.28	7.14	5.66
F	12.75	9.58	7.60	6.00
G	14.08	10.33	8.40	6.63

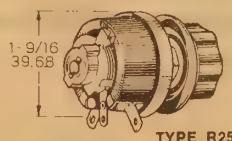
Price Code	Each 1-4	5-9	10-24	25-Up
H	11.12	9.52	8.31	7.18
J	11.65	10.22	9.00	7.52
K	12.88	10.71	9.79	8.39
M	13.37	11.50	10.00	8.73
N	28.82	23.62	21.62	.....
P	27.62	22.72	20.72	.....
R	25.37	21.02	19.02	.....

RHEOSTAT CROSS REFERENCE

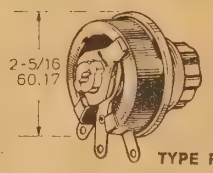
Memcor	Ohmite	Mallory
R12½	Type E	...
R25	Type H	25K
R50	Type J	50K
R100	Type K	100K
R150	Type L	150K
R300	Type N	300K



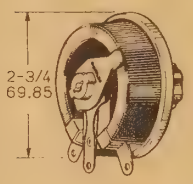
TYPE R12½



TYPE R25



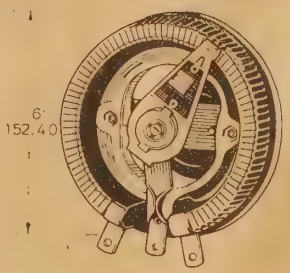
TYPE R50



TYPE R100



TYPE R150



TYPE R300

DIAL PLATES AND KNOB FOR ABOVE RHEOSTATS

TYPE 3500 DIAL PLATE. Especially designed for Types R25, R50, R100 and R150 rheostats. Has 2⁹⁄₁₆" dia. Handsomely finished with bright figures and lines on etched black background. Features a 0 to 100 scale. Wt. 2 oz.
875-8030. 1-9 .... **Each .60** **10-49** .... **Each .45**
50-Up ..... **Each .30**

TYPE 3502 DIAL PLATE. For Type R300 rheostats. Has 5½" dia.; 0 to 100 scale. Wt. 2 oz.
875-8031. 1-9 ... **Each 2.98** **10-49** ... **Each 2.10**
50-Up ..... **Each 1.49**

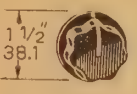
TYPE 2519 HANDWHEEL. With pointer. For Type R300. 3⅜" dia. Shpg. wt. 2 oz.
875-8050. 1-9 ... **Each 7.75** **10-49** ... **Each 5.40**
50-Up ..... **Each 3.88**

TYPE 2514 KNOB. 1½" finger-grip type for Types R25, R50, R100 and R150. Shpg. wt. 2 oz.
875-8060. 1-9 .... **Each .83** **10-49** .... **Each .59**
50-Up ..... **Each .42**

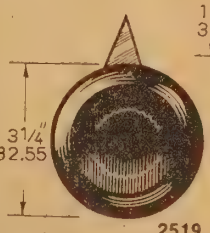
DIAL PLATE AND KNOB FOR TYPE R12½ RHEOSTAT

TYPE 3501 DIAL PLATE. 1⅜" dia. Black background. Shpg. wt. 1 oz.
875-8035. 1-9 .... **Each .48** **10-49** .... **Each .36**
50-Up ..... **Each .24**

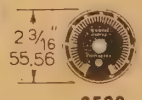
TYPE 2400 KNOB. ¾" finger-grip Black Shpg wt. 1 oz.
875-8061. 1-9 .... **Each .73** **10-49** .... **Each .55**
50-Up ..... **Each .37**



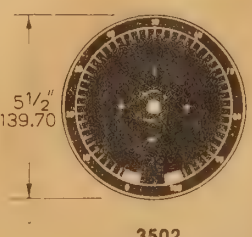
2514



2519



3500



3502

Trimmers, Potentiometers Index and Cross-Reference

POTENTIOMETER AND CONTROL INDEX

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TRIMMER, CONTROL CROSS-REFERENCE

WIREWOUND TRIMMER POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	WESTON DAYSTROM	BOURNS	SPECTROL
822-1313	100-1-100	69	6900P-101	515-00-100	3345P-1-101	84-3-8-101
822-1326	101-1-500	69	6900P-501	515-00-500	3345P-1-501	84-3-8-501
822-1329	100-1-1k	69	6900P-102	515-00-1k	3345P-1-102	84-3-8-102
822-1332	100-1-2k	69	6900P-202	515-00-2k	3345P-1-202	84-3-8-202
822-1338	100-1-5k	69	6900P-502	515-00-5k	3345P-1-502	84-3-8-502
822-1341	100-1-10k	69	6900P-103	515-00-10k	3345P-1-103	84-3-8-103
822-1426	110-500	69	.....	515-00S-500	3365P-1-501T	84-3-10-501
822-1429	110-1k	69	.....	515-00S-1k	3365P-1-102T	84-3-10-102
822-1432	110-2k	69	.....	515-00S-2k	3365P-1-202T	84-3-10-202
822-1438	110-5k	69	.....	515-00S-5k	3365P-1-502T	84-3-10-502
822-1441	110-10k	69	.....	515-00S-10k	3365P-1-103T	84-3-10-103
822-7713	910-20-100	69	3810P-101	531-00HS-100	3005P-1-101	41-1-1-101
822-7720	910-20-200	69	3810P-201	531-00HS-200	3005P-1-201	41-1-1-201
822-7726	910-20-500	69	3810P-501	531-00HS-500	3005P-1-501	41-1-1-501
822-7729	910-20-1k	69	3810P-102	531-00HS-1k	3005P-1-102	41-1-1-102
822-7732	910-20-2k	69	3810P-202	531-00HS-2k	3005P-1-202	41-1-1-202
822-7738	910-20-5k	69	3810P-502	531-00HS-5k	3005P-1-502	41-1-1-502
822-7741	910-20-10k	69	3810P-103	531-00HS-10k	3005P-1-103	41-1-1-103
822-7759	910-20-100k	69	3810P-104	531-00HS-100k	3005P-1-104	41-1-1-104

CERMET TRIMMER POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BECKMAN HELITRIM	BOURNS	SPECTROL
822-3313	170-100	68	6201P-101	82PR-100	3329H-1-101	62-1-1-101
822-3326	170-500	68	6201P-501	82PR-500	3329H-1-501	62-1-1-501
822-3329	170-1k	68	6201P-102	82PR-1k	3329H-1-102	62-1-1-102
822-3332	170-2k	68	6201P-202	82PR-2k	3329H-1-202	62-1-1-202
822-3338	170-5k	68	6201P-502	82PR-5k	3329H-1-502	62-1-1-502
822-3341	170-10k	68	6201P-103	82PR-10k	3329H-1-103	62-1-1-103
822-3344	170-20k	68	6201P-203	82PR-20k	3329H-1-203	62-1-1-203
822-3353	170-50k	68	6201P-503	82PR-50k	3329H-1-503	62-1-1-503
822-3359	170-100k	68	6201P-104	82PR-100k	3329H-1-104	62-1-1-104
822-5413	450-20-100	69	6022P-101	78P-100	3059Y-1-101	78-2-1-101
822-5426	450-20-500	69	6022P-501	78P-500	3059Y-1-501	78-2-1-501
822-5429	450-20-1k	69	6022P-102	78P-1k	3059Y-1-102	78-2-1-102
822-5432	450-20-2K	69	6022P-202	78P-2k	3059Y-1-202	78-2-1-202
822-5438	450-20-5k	69	6022P-502	78P-5k	4059Y-1-502	78-2-1-502
822-5441	450-20-10k	69	6022P-103	78P-10k	3059Y-1-103	78-2-1-103
822-5444	450-20-20k	69	6022P-203	78P-20k	3059Y-1-203	78-2-1-203
822-5453	450-20-50k	69	6022P-503	78P-50k	3059Y-1-503	78-2-1-503
822-5459	450-20-100k	69	6022P-104	78P-100k	3059Y-1-104	78-2-1-104
822-5487	450-20-1 meg	69	6022P-105	78P-1 meg	3059Y-1-105	78-2-1-105
822-8113	960-20-100	69	6035P-101	79P-100	3009P-1-101	41-2-1-101
822-8120	960-20-200	69	6035P-201	79P-200	3009P-1-201	41-2-1-201
822-8126	960-20-500	69	6035P-501	79P-500	3009P-1-501	41-2-1-501
822-8129	960-20-1k	69	6035P-102	79P-1k	3009P-1-102	41-2-1-102
822-8132	960-20-2k	69	6035P-202	79P-2k	3009P-1-202	41-2-1-202
822-8138	960-20-5k	69	6035P-502	79P-5k	3009P-1-502	41-2-1-502
822-8141	960-20-10k	69	6035P-103	79P-10k	3009P-1-103	41-2-1-103
822-8144	960-20-20k	69	6035P-203	79P-20k	3009P-1-203	41-2-1-203
822-8153	960-20-50k	69	6035P-503	79P-50k	3009P-1-503	41-2-1-503
822-8159	960-20-100k	69	6035P-104	79P-100k	3009P-1-104	41-2-1-104
822-8168	960-20-200k	69	6035P-204	79P-200k	3009P-1-204	41-2-1-204
822-8180	960-20-500k	69	6035P-504	79P-500k	3009P-1-504	41-2-1-504
822-8187	960-20-1 meg	69	6035P-105	79P-1 meg	3009P-1-105	41-2-1-105
822-8713	961-20-100	69	6034P-101	89PR-100	3006P-1-101	43P-101
822-8720	961-20-200	69	6034P-201	89PR-200	3006P-1-201	43P-201
822-8726	961-20-500	69	6034P-501	89PR-500	3006P-1-501	43P-501
822-8729	961-20-1k	69	6034P-102	89PR-1k	3006P-1-102	43P-102
822-8732	961-20-2k	69	6034P-202	89PR-2k	3006P-1-202	43P-202
822-8738	961-20-5k	69	6034P-502	89PR-5k	3006P-1-502	43P-502
822-8741	961-20-10k	69	6034P-103	89PR-10k	3006P-1-103	43P-103
822-8744	961-20-20k	69	6034P-203	89PR-20k	3006P-1-203	43P-203
822-8753	961-20-50k	69	6034P-503	89PR-50k	3006P-1-503	43P-503
822-8759	961-20-100k	69	6034P-104	89PR-100k	3006P-1-104	43P-104
822-8768	961-20-200k	69	6034P-204	89PR-200k	3006P-1-204	43P-204
822-8780	961-20-500k	69	6034P-504	89PR-500k	3006P-1-504	43P-504
822-8787	961-20-1 meg	69	6034P-105	89PR-1 meg	3006P-1-105	43P-105
822-8226	980-20-500	69	6034k-501	.....	3068P-1-501	41-3-1-501
822-8229	980-20-1k	69	6034k-102	.....	3068P-1-102	43-3-1-102
822-8232	980-20-2k	69	6034k-202	.....	3068P-1-202	43-3-1-202
822-8238	980-20-5k	69	6034k-502	.....	3068P-1-502	43-3-1-502
822-8241	980-20-10k	69	6034k-103	.....	3068P-1-103	43-3-1-103
822-8244	980-20-20k	69	6034k-203	.....	3068P-1-203	43-3-1-203
822-8253	980-20-50k	69	6034k-503	.....	3068P-1-503	43-3-1-503
822-8259	980-20-100k	69	6034k-104	.....	3068P-1-104	43-3-1-104
822-8268	980-20-200k	69	6034k-204	.....	3068P-1-204	43-3-1-204
822-8280	980-20-500k	69	6034k-504	.....	3068P-1-504	43-3-1-504

SQUARE TRIMMER POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BECKMAN HELITRIM	BOURNS	SPECTROL
822-2326	76-10-500	68	.....	72P-500	3386P-1-501	63P-501
822-2329	76-10-1k	68	.....	72P-1k	3386P-1-102	63P-102
822-2338	76-10-5k	68	.....	72P-5k	3386P-1-502	63P-502
822-2341	76-10-10k	68	.....	72P-10k	3386P-1-103	63P-103
822-2344	76-10-20k	68	.....	72P-20k	3386P-1-203	63P-203
822-2353	76-10-50k	68	.....	72P-50k	3386P-1-503	63P-503
822-2359	76-10-100k	68	.....	72P-100k	3386P-1-104	63P-104
822-7329	760-10-1k	68	6905P-102	91P-1k	3389P-1-102	53-1-1-102
822-7338	760-10-5k	68	6905P-502	91P-5k	3389P-1-502	53-1-1-502
822-7341	760-10-10k	68	6905P-103	91P-10k	3389P-1-103	53-1-1-103
822-7344	760-10-20k	68	6905P-203	91P-20k	3389P-1-203	53-1-1-203
822-7353	760-10-50k	68	6905P-503	91P-50k	3389P-1-503	53-1-1-503
822-7359	760-10-100k	68	6905P-104	91P-100k	3389P-1-104	53-1-1-104
822-7380	760-10-500k	68	6905P-504	91P-500k	3389P-1-504	53-1-1-504

MINIATURE ¼ WATT TRIMMER CONTROLS

Stock No.	Mfr's Type	Page No.	BOURNS	TRW/CTS	CENTRALAB
854-6100	MTC12L1	68	3353W-1-101	X201-R101	TSC1-101
854-6105	MTC22L1	68	3353W-1-201	X201-R201	TSC1-201
854-6107	MTC251L1	68	3353W-1-251	X201-R251	TSC1-251
854-6113	MTC52L1	68	3353W-1-501	X201-R501	TSC1-501
854-6120	MTC13L1	68	3353W-1-102	X201-R102	TSC1-102
854-6123	MTC152L1	68	3353W-1-152	X201-R152	TSC1-152
854-6127	MTC23L1	68	3353W-1-202	X201-R202	TSC1-202
854-6128	MTC252L1	68	3353W-1-252	X201-R252	TSC1-252
854-6130	MTC33L1	68	3353W-1-302	X201-R302	TSC1-302
854-6133	MTC53L1	68	3353W-1-502	X201-R502	TSC1-502
854-6135	MTC63L1	68	3353W-1-602	X201-R602	TSC1-602
854-6143	MTC14L1	68	3353W-1-103	X201-R103	TSC1-103
854-6147	MTC153L1	68	3353W-1-153	X201-R153	TSC1-153
854-6150	MTC24L1	68	3353W-1-203	X201-R203	TSC1-203
854-6153	MTC253L1	68	3353W-1-253	X201-R253	TSC1-253
854-6157	MTC54L1	68	3353W-1-503	X201-R503	TSC1-503
854-6160	MTC15L1	68	3353W-1-104	X201-R104	TSC1-104
854-6170	MTC254L1	68	3353W-1-254	X201-R254	TSC1-254
854-6175	MTC454L1	68	3353W-1-454	X201-R454	TSC1-454
854-6180	MTC55L1	68	3353W-1-504	X201-R501	TSC1-504
854-6183	MTC16L1	68	3353W-1-105	X201-R105	TSC1-105
854-6187	MTC26L1	68	3353W-1-205	X201-R205	TSC1-205
854-6190	MTC355L1	68	3353W-1-355	X201-R355	TSC1-355
854-6195	MTC56L1	68	3353W-1-505	X201-R505	TSC1-505
854-6200	MTC12L4	68	3353P-1-101	U201-R101	TSF1-101
854-6213	MTC52L4	68	3353P-1-501	U201-R501	TSF1-501
854-6220	MTC13L4	68	3353P-1-102	U201-R102	TSF1-102
854-6227	MTC23L4	68	3353P-1-202	U201-R202	TSF1-202
854-6233	MTC53L4	68	3353P-1-502	U201-R502	TSF1-502
854-6243	MTC14L4	68	3353P-1-103	U201-R103	TSF1-103
854-6253	MTC253L4	68	3353P-1-253	U201-R253	TSF1-253
854-6257	MTC54L4	68	3353P-1-503	U201-R503	TSF1-503
854-6263	MTC15L4	68	3353P-1-104	U201-R104	TSF1-104
854-6280	MTC55L4	68	3353P-1-504	U201-R504	TSF1-504
854-6283	MTC16L4	68	3353P-1-105	U201-R105	TSF1-105
854-6287	MTC26L4	68	3353P-1-205	U201-R205	TSF1-205

3-WATT WIREWOUND TRIMMER CONTROLS

Stock No.	Mfr's Type	Page No.	CENTRALAB	TRW SUPPLY	WORKMAN
854-9200	MR10T	67	WT-10	115-10	B39
854-9205	MR50T	67	WT-50	115-50	B78
854-9210	MR100T	67	WT-100	115-100	B77
854-9212	MR500T	67	WT-500	115-500	B86
854-9220	MR1000T	67	WT-1k	115-1k	.....
854-9225	MR2500T	67	WT-2.5k	115-2.5k	
854-9230	MR3000T	67	WT-3k	115-3k	B105
854-9235	MR4000T	67	WT-4k	115-4k	.....
854-9240	MR5000T	67	WT-5k	115-5k	.....
854-9245	MR10KT	67	WT-10k	115-10k	.....
854-9480	MR15F	67	WF-15	117-15	.....
854-9490	MR150F	67	WF-150	117-150	B5
854-9495	MR500F	67	WF-500	117-500	B9
854-9500	MR750F	67	WF-750	117-750	B11
854-9510	MR1000F	67	WF-1k	117-1k	B13
854-9515	MR1500F	67	WF-1.5k	117-1.5k	B24
854-9520	MR2000F	67	WF-2k	117-2k	B14
854-9600	MR15P	67	WP-15	P115-15	B43
854-9605	MR100P	67	WP-100	P115-100	B56
854-9615	MR1000P	67	WP-1k	P115-1k	B84
854-9620	MR1500P	67	WP-1.5k	P115-1.5k	B95
854-9635	MR3000P	67	WP-3k	P115-3k	.....

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Potentiometer Cross-References

10-TURN MINIATURE 2-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BOURNS	CLAROSTAT	DUNCAN
522-3101	3-101	71	4201B-100	3540S-1-101	73JA-100	3250-100
522-3201	3-201	71	4201B-200	3540S-1-201	73JA-200	3250-200
522-3501	3-501	71	4201B-500	3540S-1-501	73JA-500	3250-500
522-3102	3-102	71	4201B-1k	3540S-1-102	73JA-1k	3250-1k
522-3202	3-252	71	4201B-2.5k	3540S-1-252	73JA-2.5k	3250-2.5k
522-3502	3-502	71	4201B-5k	3540S-1-502	73JA-5k	3250-5k
522-3103	3-103	71	4201B-10k	3540S-1-103	73JA-10k	3250-10k
522-3203	3-203	71	4201B-20k	3540S-1-203	73JA-20k	3250-20k
522-3204	3-253	71	4201B-25k	3540S-1-253	73JA-25k	3250-25k
522-3503	3-503	71	4201B-50k	3540S-1-503	73JA-50k	3250-50k
522-3104	3-104	71	4201B-100k	3540S-1-104	73JA-100k	3250-100k
522-3205	3-204	71	4201B-200k	3540S-1-204	73JA-200k	3250-200k

10-TURN 2-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BECKMAN HELIPOT	DUNCAN	SPECTROL
822-9026	6800-500	72	2101B-500	7286-500	3203-500	534-501
822-9029	6800-1k	72	2101B-1k	7286-1k	3203-1k	534-102
822-9038	6800-5k	72	2101B-5k	7286-5k	3203-5k	534-502
822-9041	6800-10k	72	2101B-10k	7286-10k	3203-10k	534-103
822-9044	6800-20k	72	2101B-20k	7286-20k	3203-20k	534-203
822-9053	6800-50k	72	2101B-50k	7286-50k	3203-50k	534-503
822-9059	6800-100k	72	2101B-100k	7286-100k	3203-100k	534-104

10-TURN MINIATURE 3-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BOURNS	DUNCAN	SPECTROL
522-5121	5-101	71	2151B-100	3500S-1-101	3253-100	510-101
522-5126	5-501	71	2151B-500	3500S-1-501	3253-500	510-501
522-5129	5-1k	71	2151B-1k	3500S-1-102	3253-1k	510-102
522-5132	5-2k	71	2151B-2k	3500S-1-202	3253-2k	510-202
522-5138	5-5k	71	2151B-5k	3500S-1-502	3253-5k	510-502
522-5141	5-10k	71	2151B-10k	3500S-1-103	3253-10k	510-103
522-5144	5-20k	71	2151B-20k	3500S-1-203	3253-20k	510-203
522-5159	5-100k	71	2151B-100k	3500S-1-104	3253-100k	510-104
522-5153	5-50k	71	2151B-50k	3500S-1-503	3253-50k	510-503

10-TURN 3-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BOURNS	BECKMAN HELIPOT	SPECTROL
822-9621	8400-100	72	4101B-100	3507S-1-101	7246-100	530-101
822-9620	8400-200	72	4101B-200	3507S-1-201	7246-200	530-201
822-9626	8400-500	72	4101B-500	3507S-1-501	7246-500	530-501
822-9629	8400-1k	72	4101B-1k	3507S-1-102	7246-1k	530-102
822-9632	8400-2k	72	4101B-2k	3507S-1-202	7246-2k	530-202
822-9638	8400-5k	72	4101B-5k	3507S-1-502	7246-5k	530-502
822-9641	8400-10k	72	4101B-10k	3507S-1-103	7246-10k	530-103
822-9644	8400-20k	72	4101B-20k	3507S-1-203	7246-20k	530-203
822-9653	8400-50k	72	4101B-50k	3507S-1-503	7246-50k	530-503
822-9659	8400-100k	72	4101B-100k	3507S-1-104	7246-100k	530-104

10-TURN 5-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BOURNS	BECKMAN HELIPOT	SPECTROL
822-0222	HD-150-200	72	2201B-200	3400S-1-201	A-200	860-201
822-0226	HD-150-500	72	2201B-500	3400S-1-501	A-500	860-501
822-0229	HD-150-1k	72	2201B-1k	3400S-1-102	A-1k	860-102
822-0238	HD-150-5k	72	2201B-5k	3400S-1-502	A-5k	860-502
822-0241	HD-150-10k	72	2201B-10k	3400S-1-103	A-10k	860-103
822-0244	HD-150-20k	72	2201B-20k	3400S-1-203	A-20k	860-203
822-0259	HD-150-100k	72	2201B-100k	3400S-1-104	A-100k	860-104

10-TURN 6-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	AMPHENOL	BORG	BOURNS	HELIPOT
522-7129	7-102 .25	71	2201B-1k	2251B-1k	.....	A-1k
522-7132	7-202 .25	71	2201B-2k	2251B-2k	.....	A-2k
522-7138	7-502 .25	71	2201B-5k	2251B-5k	.....	A-5k
522-7141	7-103 .25	71	2201B-10k	2251B-10k	.....	A-10k
522-7159	7-104 .25	71	2201B-100k	2251B-100k	.....	A-100k
522-7160	7-204 .25	71	2201B-200k	2251B-200k	.....	A-200k
522-7229	7-102 .1	71	2271B-1k	2221B-1k	3400S-1-102	.....
522-7232	7-202 .1	71	2271B-2k	2221B-2k	3400S-1-202	.....
522-7238	7-502 .1	71	2271B-5k	2221B-5k	3400S-1-502	.....
522-7241	7-103 .1	71	2271B-10k	2221B-10k	3400S-1-103	.....
522-7259	7-104 .1	71	2271B-100k	2221B-100k	3400S-1-104	.....
522-7260	7-204 .1	71	2271B-200k	2221B-200k	3400S-1-204	.....

10-TURN 10-WATT POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	BECKMAN HELIPOT	BOURNS	DUNCAN	SAKAE
522-8126	8-501 .25	71	7620-500	3450S-1-501	3702-501	4HP-101
522-8129	8-1k .25	71	7620-1k	3450S-1-102	3702-102	4HP-102
522-8132	8-2k .25	71	7620-2k	3450S-1-203	3702-202	4HP-202
522-8138	8-5k .25	71	7620-5k	3450S-1-502	3702-502	4HP-502
522-8141	8-10k .25	71	7620-10k	3450S-1-103	3702-103	4HP-103
522-8144	8-50k .25	71	7620-50k	3450S-1-503	3702-503	4HP-503
522-8159	8-100k .25	71	7620-100k	3450S-1-104	3702-104	4HP-104
522-8165	8-200k .25	71	7620-300k	3450S-1-304	3702-304	4HP-304

5-WATT WIREWOUND CONTROLS

Stock No.	Mfr's Type	Page No.	TRW	CENTRALAB	SPECTROL
854-7602	VW-2	67	AW-2	WW-020	152-020
854-7605	VW-5	67	AW-5	WW-050	152-050
854-7610	VW-10	67	AW-10	WW-100	152-100
854-7620	VW-20	67	AW-20	WW-200	152-200
854-7625	VW-25	67	AW-25	WW-250	152-250
854-7650	VW-50	67	AW-50	WW-500	152-500
854-7700	VW-100	67	AW-100	WW-101	152-101
854-7720	VW-200	67	AW-200	WW-201	152-201
854-7725	VW-250	67	AW-250	WW-251	152-251
854-7750	VW-500	67	AW-500	WW-500	152-501
854-7753	VW-1000	67	AW-1k	WW-102	152-102
854-7760	VW-2000	67	AW-2k	WW-202	152-202
854-7763	VW-2500	67	AW-2.5k	WW-252	152-252
854-7773	VW-5k	67	AW-5k	WW-502	152-502
854-7777	VW-10k	67	AW-10k	WW-103	152-103
854-7783	VW-20k	67	AW-20k	WW-203	152-203
854-7787	VW-25k	67	AW-25k	WW-253	152-253

2-WATT COMPOSITION POTENTIOMETERS

Stock No.	Mfr's Type	Page No.	ALLEN BRADLEY	CENTRALAB	OHMITE
753-1001	RV4LAYSA-101A	66	JA1L040S101UC	HML-100	CLU1011
753-1075	RV4LAYSA-251A	66	JA1L040S251UC	HML-250	CLU2511
753-1140	RV4LAYSA-501A	66	JA1L040S501UC	HML-500	CLU5011
753-1005	RV4LAYSA-102A	66	JA1L040S102UC	HML-1k	CLU1021
753-1055	RV4LAYSA-202A	66	JA1L040S202UC	HML-2k	CLU2021
753-1080	RV4LAYSA-252A	66	JA1L040S252UC	HML-2.5k	CLU2521
753-1145	RV4LAYSA-502A	66	JA1L040S502UC	HML-5k	CLU5021
753-1010	RV4LAYSA-103A	66	JA1L040S103UC	HML-10k	CLU1031
753-1085	RV4LAYSA-253A	66	JA1L040253UC	HML-25k	CLU2531
753-1015	RV4LAYSA-104A	66	JA1L040104UC	HML-100k	CLU1041
753-1090	RV4LAYSA-254A	66	JA1L040254UC	HML-250k	CLU2541
753-1155	RV4LAYSA-504A	66	JA1L040504UC	HML-500k	CLU5041
753-1020	RV4LAYSA-105B	66	JA1L040S105MC	HML1 meg	CLU1052
753-1160	RV4LAYSA-505B	66	JA1L040S505MC	HML-5 meg	CLU5052
753-1301	RV4NAYSD-101A	66	JA1N056S101UA	HMP-100	CMU1011
753-1305	RV4NAYSD-102A	66	JA1N056S102UA	HMP-1k	CMU1021
753-1445	RV4NAYSD-502A	66	JA1N056S502UA	HMP-5k	CMU5021
753-1310	RV4NAYSD-103A	66	JA1N056S103UA	HMP-10k	CMU1031
753-1385	RV4NAYSD-253A	66	JA1N056S253UA	HMP-25k	CMU2531
753-1450	RV4NAYSD-503A	66	JA1N056S503UA	HMP-50k	CMU5031
753-1315	RV4NAYSD-104A	66	JA1N056S104UA	HMP-100k	CMU1041
753-1455	RV4NAYSD-504A	66	JA1N056S504UA	HMP-500k	CMU5041
753-1320	RV4NAYSD-105B	66	JA1N056S105MA	HMP-1 meg	CMU1052

2-WATT THICK FILM POTENTIOMETERS

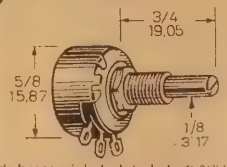
Stock No.	Mfr's Type	Page No.	ALLEN BRADLEY	OHMITE
753-5023	380-C1-100-S	66	JA1N200P101UA	CU1011
753-5029	380-C1-250-S	66	JA1N200P251UA	CU2511
753-5035	380-C1-500-S	66	JA1N200P501UA	CU5011
753-5047	380-C1-1000-S	66	JA1N200P102UA	CU1021
753-5053	380-C1-2500-S	66	JA1N200P252UA	CU2521
753-5059	380-C1-5000-S	66	JA1N200P502UA	CU5021
753-5061	380-C1-10k-S	66	JA1N200P103UA	CU1031
753-5067	380-C1-25k-S	66	JA1N200P253UA	CU2531
753-5073	380-C1-50k-S	66	JA1N200P503UA	CU5031
753-5075	380-C1-100k-S	66	JA1N200P104UA	CU1041
753-5083	380-C1-500k-S	66	JA1N200P504UA	CU5041
753-5087	380-C1-1 meg-S	66	JA1N200P105MA	CU1052
753-5173	380-C2-50k-S	66	JA1L040S503UC	CLU5031
753-5175	380-C2-100k-S	66	JA1L040S104UC	CLU1041
753-5223	380-C3-100-S	66	JA1N056S101UA	CMU1011
753-5235	380-C3-500-S	66	JA1N056S501UA	CMU5011
753-5247	380-C3-1000-S	66	JA1N056S102UA	CMU1021
753-5253	380-C3-2500-S	66	JA1N056S252UA	CMU2521
753-5259	380-C3-5000-S	66	JA1N056S502UA	CMU5021
753-5261	380-C3-10k-S	66	JA1N056S103UA	CMU1031
753-5267	380-C3-25k-S	66	JA1N056S253UA	CMU2531
753-5273	380-C3-50k-S	66	JA1N056S503UA	CMU5031
753-5275	380-C3-100k-S	66	JA1N056S104UA	CMU1041
753-5283	380-C3-500k-S	66	JA1N056S504UA	CMU5041
753-5287	380-C3-1 meg-S	66	JA1N056S105MA	CMU1052

PRECISION MULTI-TURN AND DIGITAL DIALS

Stock No.	Mfr's Type	Page No.	SPECTROL	DUNCAN	AMPHENOL	BECKMAN/ HELIPOT	BOURNS
522-1010	DA10-24B6.5	73	15, 25	71, 76	1300	210	H-357-2
522-1001	MD10-30B6.5	73	21-3-11	81	....	....	H-510-2
522-1020	MF20-22B6.5	73	16-1-21	60	1370	2607	H-494-3
822-0462	RD-462	73	11-1-11	61	....	....	H-492-3
522-1025	MB10-25B6.5	73	11-1-11	61	....	....	H-492-3
522-1370	MF20-46B6.5	73	21-1-11	80	1350	RB	.....
822-0801	B801	73	11-3-11	65	....	2601	H-493-2
822-0802	B802	73	11-3-21	65	....	2601	H-494-2

SERIES 381 1-WATT ⅝" DIAMETER THICK FILM CONDUCTIVE PLASTIC (CARBON) POTENTIOMETERS

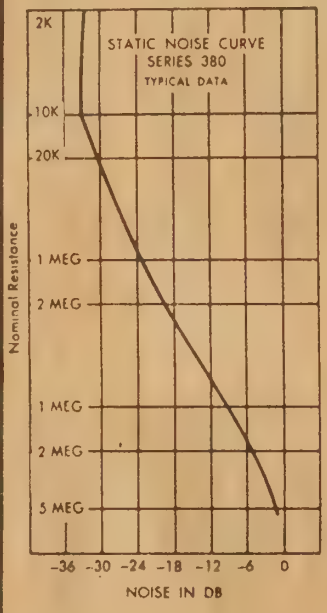
- Precision Machined from Corrosion Resistant and Non-Magnetic Materials
- Rotational Life 100,000 Cycles Under Load
- Homogeneous, Strain-Free Thick-Film Resistance Element with 1% Dynamic Noise, 5% Independent Linearity
- Meets Stringent MIL-R-94 Specifications

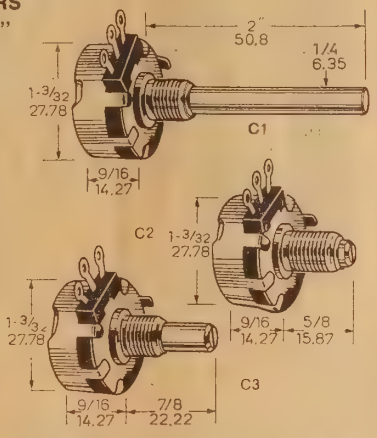


Construction: plain ¼" long bushing with ¼-32 NEF-2A thread; brass nickel plated shaft ¾" long; dust and splash proof housing; cover to base epoxy sealed; terminals molded into base and sealed for solderability per MIL-STD-202, Method 208B. Resistance tolerance: Linear up to 500k ohms ±10%, above 500k ohms ±20%.

Stock No.	Mfr's Type	Ohms	EACH			
			1-9	10-49	50-99	100-Up
753-8329	381N-250	250	2.93	2.20	1.88	1.36
753-8335	381N-500	500	2.93	2.20	1.88	1.36
753-8347	381N-1000	1000	2.93	2.20	1.88	1.36
753-8359	381N-5000	5000	2.93	2.20	1.88	1.35
753-8361	381N-10k	10k	2.93	2.20	1.88	1.36
753-8367	381N-25k	25k	2.93	2.20	1.88	1.36
753-8373	381N-50k	50k	2.93	2.20	1.88	1.36
753-8375	381N-100k	100k	2.93	2.20	1.88	1.36
753-8381	381N-250k	250k	2.93	2.20	1.88	1.36
753-8383	381N-500k	500k	2.93	2.20	1.88	1.36
753-8387	381N-1 meg	1 meg	2.93	2.20	1.88	1.36

2-WATT SERIES 380 THICK FILM CONDUCTIVE PLASTIC (CARBON) POTENTIOMETERS CALLED THE "QUIET ONES"



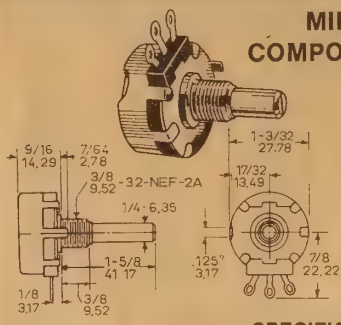


- Linear Taper
- Manufactured in a Controlled Environment
- Outstanding Mechanical Life
- Strain-Free Resistance Element, 1% Dynamic Noise and 5% Independent Linearity

These quiet, precision-made potentiometers are made by a controlled process that virtually insures a reliable, homogeneous and strainfree resistance element with 1% dynamic noise and 5% independent linearity. All have stainless steel shafts. **Type C1** has 2" round shaft FMS, ⅜" long bushing with ⅜" x 32-NEF-2A thread. **Type C2** has ⅝" screwdriver slotted shaft FMS with a ½" split locking bushing. **Type C3** has ⅞" screwdriver shaft FMS, ⅜" long bushing with ⅜" x 32-NEF-2A thread. Resis. Tol. up to 1 megohm ±10%, above 1 megohm ±20%. Dielectric strength, 1000VAC. Wt. 2 oz.

Stock No.	Mfr's Type	Ohms	EACH			
			1-9	10-49	50-99	100-Up
753-5023	380-C1-100-S	100	3.03	2.12	1.96	1.77
753-5029	380-C1-250-S	250	3.03	2.12	1.96	1.77
753-5035	380-C1-500-S	500	3.03	2.12	1.96	1.77
753-5047	380-C1-1000-S	1000	3.03	2.12	1.96	1.77
753-5053	380-C1-2500-S	2500	3.03	2.12	1.96	1.77
753-5059	380-C1-5000-S	5000	3.03	2.12	1.96	1.77
753-5061	380-C1-10K-S	10k	3.03	2.12	1.96	1.77
753-5067	380-C1-25K-S	25k	3.03	2.12	1.96	1.77
753-5073	380-C1-50K-S	50k	3.03	2.12	1.96	1.77
753-5075	380-C1-100K-S	100k	3.03	2.12	1.96	1.77
753-5083	380-C1-500K-S	500k	3.03	2.12	1.96	1.77
753-5087	380-C1-1 Meg-S	1 meg	3.03	2.12	1.96	1.77
753-5173	380-C2-50K-S	50k	3.33	2.44	2.27	2.05
753-5175	380-C2-100K-S	100k	3.33	2.44	2.27	2.05
753-5223	380-C3-100-S	100	3.03	2.12	1.96	1.77
753-5235	380-C3-500-S	500	3.03	2.12	1.96	1.77
753-5247	380-C3-1000-S	1000	3.03	2.12	1.96	1.77
753-5253	380-C3-2500-S	2500	3.03	2.12	1.96	1.77
753-5259	380-C3-5000-S	5000	3.03	2.12	1.96	1.77
753-5261	380-C3-10K-S	10k	3.03	2.12	1.96	1.77
753-5267	380-C3-25K-S	25k	3.03	2.12	1.96	1.77
753-5273	380-C3-50K-S	50k	3.03	2.12	1.96	1.77
753-5275	380-C3-100K-S	100k	3.03	2.12	1.96	1.77
753-5283	380-C3-500K-S	500k	3.03	2.12	1.96	1.77
753-5287	380-C3-1 Meg-S	1 meg	3.03	2.12	1.96	1.77

MIL-R-94B RV4 2-WATT COMPOSITION POTENTIOMETER



Crafted of the finest materials available to insure long, reliable service. Provides extra long life with very low noise level. ⅛" diameter. Rated 2 watts. Precision construction is completely enclosed. Carbon-ceramic element. RV4L designates ⅝" screwdriver slotted shaft FMS with ½" split locking bushing provided. RV4N indicates ⅞" screwdriver slotted shaft FMS. ⅜" long bushing has ⅝-32-NEF-2A thread. Av. shpg. wt. 4 oz.

SPECIFICATIONS

Resistance tolerance: 1 meg ±10% over 1 meg ±20%. Rotation: 312° ±3%. End Resistance: Per MIL-R-94. Working Voltage: 500VDC across end terminals.

STOCK NO.—LIST—SEE PRICES BELOW

Stock No.	MIL Type RV4LAYSA-	Ohms	Stock No.	MIL Type RV4NAYSD-	Ohms
753-1001	101A	100	753-1301	101A	100
753-1075	251A	250			
753-1140	501A	500			
753-1005	102A	1000	753-1305	102A	1000
753-1055	202A	2000			
753-1080	252A	2500			
753-1145	502A	5000	753-1445	502A	5000
753-1010	103A	10k	753-1310	103A	10k
753-1085	253A	25k	753-1385	253A	25k
			753-1450	503A	50k
753-1015	104A	100k	753-1315	104A	100k
753-1090	254A	250k			
753-1155	504A	500k	753-1455	504A	500k
753-1020	105B	1 m	753-1320	105B	1 m
753-1160	505B	5 m			

RV4 PRICING

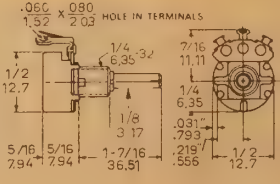
MIL Type	EACH			
	1-9	10-49	50-99	100-Up
RV4N	2.15	1.76	1.65	1.38
RV4L	2.48	2.09	1.74	1.46

TYPE MLC ½" DIAMETER ¼ AND ⅛-WATT CARBON CONTROLS

- Steel or Nylon Shaft
- Linear Taper
- Audio Taper



MLC

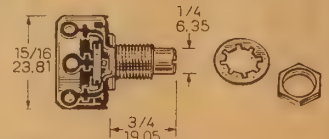


Linear rated ¼-watt, audio rated ⅛-watt. Bushing ¼"-32. Shaft: steel (except Type MLCN, nylon), ⅛" diameter x 1 7/16. *Taper No. 1 for audio, antenna shunts. †Taper No. 4 linear for voltage control. Mount nut. Tolerance: ±20%. Shpg. wt. 1 oz.

Stock No.	Type	Ohms	Taper	Stock No.	Type	Ohms	Taper	EACH			
								1-9	10-24	25-49	50-Up
854-5800	MLC13L	1000	†4	854-5815	MLC15L	100k	†4	2.08	1.52	1.38	1.26
854-5830	MLC53L	5000	†4	854-5860	MLCN16A	1 meg	*1	2.08	1.52	1.38	1.26
854-5805	MLC14L	10k	†4	854-5865	MLCN16L	1 meg	†4	2.08	1.52	1.38	1.26
854-5835	MLC54L	50k	†4					2.08	1.52	1.38	1.26

TYPE SU ½-WATT MIDGETROLS

Exact replacements in TV sets and other applications. Have ¾" long x ¼" dia. fixed knurled and slotted nylon shaft ¼"x¾" FMS. 19/16" dia. Rated ½-watt. Linear taper. Tolerance: ±20%. With washer, nut Av. wt. 4 oz.

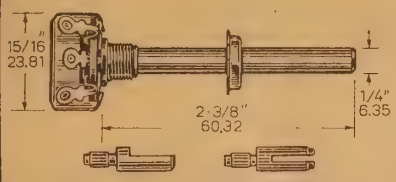


Stock No.	Type	Ohms	Stock No.	Type	Ohms
854-6606	SU-6	1500	854-6635	SU-35	50k
854-6614	SU-14	5000	854-6641	SU-41	100k
854-6620	SU-20	10k	854-6646	SU-46	250k
854-6629	SU-29	25k	854-6650	SU-50	500k

1-9 ..... Each 1.78
10-24 ..... Each 1.44
25-49 ..... Each 1.12
50-Up ..... Each 1.02

Potentiometers and Controls

TYPE U ½- and 1-WATT METAL SHAFT MIDGETROL CONTROLS



Available in a full line of resistances, tapers and taps. Round, hollow shaft—easily cut to desired length. Two spline-shank knob adapters furnished with each Midgetrol — see illustration left. Taper No. 1: for audio or antenna shunt circuits (½ watt). Taper No. 4: Linear (1 watt). For voltage control. With nut and lockwasher. 9/16" dia. Brass shaft, 2⅜" long, ¼" dia. Less switch (below). Tolerance: −20%. Wt. 4 oz.

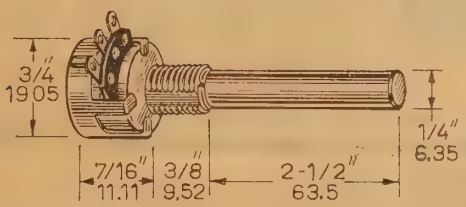
Stock No.	Type	Ohms	Taper	Stock No.	Type	Ohms	Taper
854-7301	U-1	100	4	854-7335	U-35	50k	4
854-7302	U-2	500	4	854-7339	U-39	100k	1
854-7304	U-4	1000	4	854-7341	U-41	100k	4
854-7312	U-12	5000	1	854-7344	U-44	250k	1
854-7314	U-14	5000	4	854-7346	U-46	250k	4
854-7318	U-18	10K	1	854-7348	U-48	500K	1
854-7320	U-20	10k	4	854-7350	U-50	500k	4
854-7326	U-26	20k	4	854-7353	U-53	1 meg	1
854-7329	U-29	25k	4	854-7354	U-54	1 meg	4
854-7333	U-33	50k	1	854-7382	U-82	10 meg	4

1-9 ..... Each 1.93 10-24 ..... Each 1.34
25-49 ..... Each 1.22 50-Up ..... Each 1.11

SWITCHES FOR MIDGETROLS

"Push-on, stay-on" switches for Midgetrols. *Flame-retardant. U.L. approved. Av. wt. 2 oz.
854-7426. US-26 SPST *Switch. 1-9 ..... Each 1.04
10-24 ..... Each .77 25-49 ..... Each .69 50-Up ..... Each .64
854-7427. US-27 DPST Switch. 1-9 ..... Each 1.20
10-24 ..... Each .85 25-49 ..... Each .77 50-Up ..... Each .70

TYPES VW AND VWS 5-WATT WIREWOUND CONTROLS



ALLIED SELLS QUALITY POTS AND CONTROLS

Only ¾" dia., 7/16" deep. Miniature size allows replacement of 1, 2, 3, and 4-watt wirewounds at low cost. Bushing: ⅜×⅜" dia., ¼" plain round shaft: VW— 2½" long from mounting surface; VWS—⅞" long from mounting surface. All have linear taper: ±10% tolerance; 305° mechanical rotation, 275° electrical rotation. **VW type has 2½" shaft, VWS type has ⅞" shaft.** Shpg. wt. 4 oz.

VW 2½" FMS SHAFT

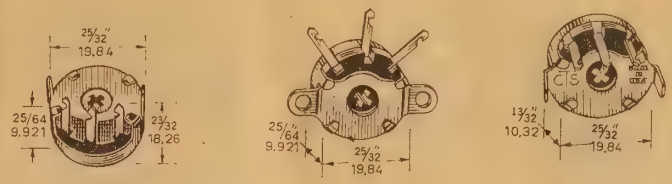
Stock No.	Mfr's Type	Ohms	EACH 1-4	5-9	10-49	50-Up
854-7602	VW-2	2	3.48	2.46	2.19	2.05
854-7605	VW-5	5	3.48	2.46	2.19	2.05
854-7610	VW-10	10	3.48	2.46	2.19	2.05
854-7620	VW-20	20	3.48	2.46	2.19	2.05
854-7625	VW-25	25	3.48	2.46	2.19	2.05
854-7650	VW-50	50	3.48	2.46	2.19	2.05
854-7700	VW-100	100	3.48	2.46	2.19	2.05
854-7720	VW-200	200	3.48	2.46	2.19	2.05
854-7725	VW-250	250	3.48	2.46	2.19	2.05
854-7750	VW-500	500	3.48	2.46	2.19	2.05
854-7753	VW-1k	1000	3.48	2.46	2.19	2.05
854-7760	VW-2k	2000	3.48	2.46	2.19	2.05
854-7763	VW-2.5K	2500	3.48	2.46	2.19	2.05
854-7773	VW-5k	5000	3.48	2.46	2.19	2.05
854-7777	VW-10k	10k	3.70	2.75	2.46	2.29
854-7783	VW-20k	20k	3.70	2.75	2.46	2.29
854-7787	VW-25k	25k	3.70	2.75	2.46	2.29

VWS ⅞" FMS SHAFT

854-9300	VWS2	2	3.20	2.26	2.02	1.90
854-9310	VWS10	10	3.20	2.26	2.02	1.90
854-9315	VWS20	20	3.20	2.26	2.02	1.90
854-9320	VWS25	25	3.20	2.26	2.02	1.90
854-9325	VWS50	50	3.20	2.26	2.02	1.90
854-9330	VWS100	100	4.58	3.07	2.74	2.57
854-9335	VWS200	200	4.58	3.07	2.74	2.57
854-9340	VWS250	250	4.58	3.07	2.74	2.57
854-9345	VWS500	500	4.58	3.07	2.74	2.57
854-9350	VWS1K	1000	4.58	3.07	2.74	2.57
854-9355	VWS2K	2000	4.73	3.16	2.82	2.65
854-9360	VWS2P5K	2500	4.73	3.16	2.82	2.65
854-9365	VWS5K	5000	4.73	3.16	2.82	2.65
854-9370	VWS10K	10K	4.88	3.26	2.91	2.74
854-9380	VWS25K	25K	5.08	3.40	3.04	2.85

115, 117 AND P115 2-WATT WIREWOUND TRIMMER CONTROLS

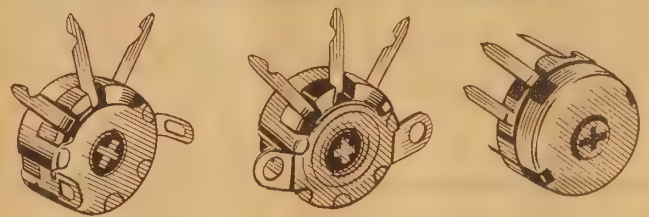
115 117 P-115



Miniature trimmers have enclosed construction that protects unit from dust to assure silent operation. Insulated rotor isolates device from possible damage. Rotor has screwdriver slot. P-115 twist-tab mount, 117 rivet-ear mount, 115 PC mount. Printed circuit terminals. Linear taper. 10% tolerance. Two watts at +55°C. 270° ±5° rotation. 500 VDC max. V. Turning torque is ½ to 10 in.-oz. Stop strength is 4 in.-lbs. Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Ohms	EACH 1-24	25-49	50-99	100-Up
745-5000	117-R5R0A	5	1.31	1.05	.79	.63
745-5025	117-R250A	25	1.31	1.05	.79	.63
745-5010	117-R101A	100	1.31	1.05	.79	.63
745-5045	117-R501A	500	1.31	1.05	.79	.63
745-4950	115-R502A	5000	1.31	1.05	.79	.63
745-4920	115-R103A	10k	1.31	1.05	.79	.63
745-1600	P115-R5R0A	5	1.31	1.05	.79	.63
745-1730	P115-R500A	50	1.31	1.05	.79	.63
745-1701	P115-R101A	100	1.31	1.05	.79	.63
745-1720	P115-R251A	250	1.31	1.05	.79	.63
745-1735	P115-R501A	500	1.31	1.05	.79	.63
745-1740	P115-R502A	5000	1.31	1.05	.79	.63
745-1710	P115-R103A	10k	1.31	1.05	.79	.63

TYPE MR WIREWOUND CONTROLS



MR-T MR-F MR-P

MR-T 3-WATT TAB MOUNT WIRE

Only ¾" diameter, MR controls are used for applications in AGC, convergence and hum-balance. Case is fully enclosed, all metal. Four cross slot conversion to shaft may be made using plug-in shafts. Wattage rating at 40°C: 3 watts: Rotation: 250° mechanical; 248° electrical. Resistance tolerance: ±20%: Voltage breakdown: 900 VAC rms.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-Up
854-9200	MR10T	10	1.45	1.18	.81
854-9205	MR50T	50	1.45	1.18	.81
854-9210	MR100T	100	1.45	1.18	.81
854-9212	MR500T	500	1.45	1.18	.81
854-9220	MR1000T	1000	1.45	1.18	.81
854-9225	MR2500T	2500	1.53	1.23	.86
854-9230	MR3000T	3000	1.53	1.23	.86
854-9235	MR4000T	4000	1.53	1.23	.86
854-9240	MR5000T	5000	1.55	1.31	.93
854-9245	MR10KT	10K	1.80	1.49	1.01

MR-F 3-WATT FLANGE MOUNT

Mounting ears with .130" diameter holes on 1" center.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-Up
854-9500	MR750F	750	1.45	1.18	.80
854-9510	MR1000F	1000	1.45	1.18	.80
854-9515	MR1500F	1500	1.45	1.18	.80
854-9520	MR2000F	2000	1.45	1.18	.80
854-9480	MR15F	15	1.45	1.18	.80
854-9490	MR150F	150	1.45	1.18	.80
854-9495	MR500F	500	1.45	1.18	.80

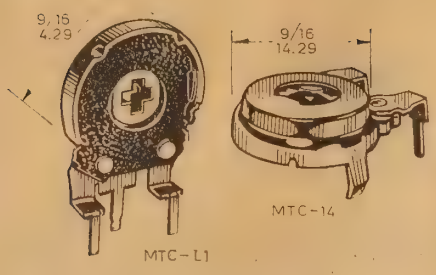
MR-P 3-WATT PC MOUNT

Printed circuit board mounting.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-49	50-Up
854-9600	MR15P	15	1.45	1.18	.80
854-9605	MR100P	100	1.45	1.18	.80
854-9615	MR1000P	1000	1.45	1.18	.80
854-9620	MR1500P	1500	1.45	1.18	.80
854-9635	MR3000P	3000	1.45	1.18	.80

Trimmers and Control Assortments

MINIATURE ¼-WATT TRIMMER CONTROLS



These highly reliable miniature ¼-watt trimmers are designed especially for printed circuits in a wide variety of commercial and industrial applications. Can be used in transistorized or tube circuits—wherever an occasionally adjusted, variable resistance is needed. All have flush, open, crossed slot. Adjustments can be made with either a blade or standard Phillips-type screw driver. All have linear taper; 270° rotation; 500 volts maximum rating. Tolerance: ±20%. All are 9/16" (14.28mm) diameter. Available in two types for vertical or horizontal mounting applications. See price chart below. Wt. 3 oz. (85gm).

- Vertical or Horizontal Mounting
- Linear Taper • 270° Rotation
- Maximum Rating, 500 volts
- Tolerance ±20%

Type	Mounting	EACH 1-9	10-24	25-49	50-Up
MTC-L1	Vert.	.67	.47	.42	.39
MTC-L4	Hor.	.67	.47	.42	.39

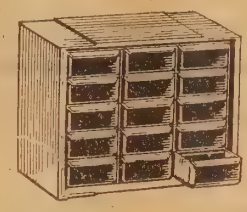
MTC-L1 Stock No.	Type	Ohms	Stock No.	Type	Ohms	MTC-L4 Stock No.	Type	Ohms
854-6100	MTC12L1	100	854-6147	MTC153L1	15k	854-6200	MTC12L4	100
854-6105	MTC22L1	200	854-6150	MTC24L1	20k	854-6213	MTC52L4	500
854-6107	MTC251L1	250	854-6153	MTC253L1	25k	854-6220	MTC13L4	1000
854-6113	MTC52L1	500	854-6157	MTC54L1	50k	854-6227	MTC23L4	2000
854-6120	MTC13L1	1000	854-6160	MTC15L1	100k	854-6233	MTC53L4	5000
854-6123	MTC152L1	1500	854-6170	MTC254L1	250k	854-6243	MTC14L4	10k
854-6127	MTC23L1	2000	854-6175	MTC454L1	450k	854-6253	MTC253L4	25k
854-6128	MTC252L1	2500	854-6180	MTC55L1	500k	854-6257	MTC54L4	50k
854-6130	MTC33L1	3000	854-6183	MTC16L1	1 meg	854-6260	MTC15L4	100k
854-6133	MTC53L1	5000	854-6187	MTC26L1	2 meg	854-6280	MTC55L4	500k
854-6135	MTC63L1	6000	854-6190	MTC355L1	3.5 meg	854-6283	MTC16L4	1 meg
854-6143	MTC14L1	10k	854-6195	MTC56L1	5 meg	854-6287	MTC26L4	2 meg



ASSORTED WIREWOUND CONTROLS

MR 15-1. Five popular types of controls in assorted ratings. Includes Type MR-T tab mount, MR-F flange mount, MR-P printed circuit mount in 3 watt ratings. In 1½ watt ratings there are Type MRC-P PC convergence controls. Also 10 MRS 1250 shafts. Housed in attractive cabinet.

854-6000 ..... Each 28.55

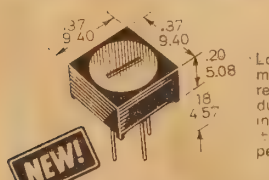


SUBMINIATURE CARBON CONTROLS

MTC 15-1. A total of 58 controls in two mounting styles, twenty-nine of each style in popular ratings, make up this assortment specifically designed for printed circuitry. Two mounting styles: MTC-L1 for vertical mounting; MTC-L4 for horizontal mounting. With cabinet for bench or desk.

854-6001 ..... Each 27.07

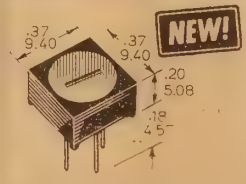
SINGLE-TURN CERMET TRIMMER POTENTIOMETERS



TYPE 76-10 ⅜" SQUARE TRIMMERS

Low cost industrial and commercial trimmers have space-saving miniature configurations which allow reduced circuit board size requirements. Sealed to withstand industrial cleaning procedures. Tolerance: ±20%. Power rating: 0.5 watts at 85°C. Operating Temperature: -50°C to +125°C Temperature Coefficient: ±100ppm/°C standard. PC mounting, pins are of solder clad copper which makes wave soldering easier.

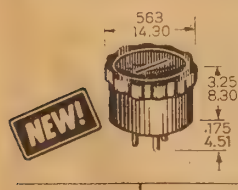
Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-49	50-Up
822-2326	76-10-500	500	.78	.69	.62	.57
822-2329	76-10-1k	1k	.78	.69	.62	.57
822-2338	76-10-5k	5k	.78	.69	.62	.57
822-2341	76-10-10k	10k	.78	.69	.62	.57
822-2344	76-10-20k	20k	.78	.69	.62	.57
822-2353	76-10-50k	50k	.78	.69	.62	.57
822-2359	76-10-100k	100k	.78	.69	.62	.57



TYPE 760-10 ⅜" SQUARE TRIMMERS

Designed to meet applicable environmental requirements of MIL-R-22097, characteristic C. Sealed to withstand industrial cleaning procedures. Tolerance: ±10%. Power rating is 0.5 watts at 85°C. Operating Temperature: -50°C to +125°C, temperature coefficient: ±100ppm/°C standard. High frequency up to 100 MHz, smooth Metal Glaze® element insures long life and infinite resolution. PC mounting, tin/plated pins make wave soldering easier.

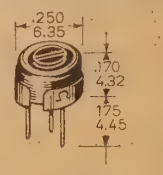
Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-49	50-Up
822-7329	760-10-1k	1k	.90	.79	.72	.67
822-7338	760-10-5k	5k	.90	.79	.72	.67
822-7341	760-10-10k	10k	.90	.79	.72	.67
822-7344	760-10-20k	20k	.90	.79	.72	.67
822-7353	760-10-50k	50k	.90	.79	.72	.67
822-7359	760-10-100k	100k	.90	.79	.72	.67
822-7380	760-10-500k	500k	.90	.79	.72	.67



TYPE 160 ½" ROUND TRIMMERS

Simplified design allows accurate, fast response. Sealed construction prevents performance deterioration caused by moisture or dust. Sturdy 30 ounce-inch solid stops, tested to MIL-R-22097, characteristic C. Tolerance: ±10%. Power rating 0.75 watts at 85°C. Operating Temperature: -65°C to +150°C, temperature coefficient: ±100ppm/°C. Infinite resolution assured by Metal Glaze® element. PC mounting.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-49	50-Up
822-3029	160-1k	1k	5.65	4.25	3.50	3.16
822-3032	160-2k	2k	5.65	4.25	3.50	3.16
822-3038	160-5k	5k	5.65	4.25	3.50	3.16
822-3041	160-10k	10k	5.65	4.25	3.50	3.16
822-3044	160-20k	20k	5.65	4.25	3.50	3.16
822-3053	160-50k	50k	5.65	4.25	3.50	3.16
822-3059	160-100k	100k	5.65	4.25	3.50	3.16
822-3080	160-500k	500k	5.65	4.25	3.50	3.16
822-3087	160-1 meg	1 meg	5.65	4.25	3.50	3.16



TYPE 170 ¼" ROUND TRIMMERS

Miniature industrial trimmer. Sealed to withstand hot water immersion. Tested to MIL-R-22097 characteristic C. Tolerance: ±20%. Power rating is 0.5 watts at 85°C. Operating Temperature: -55°C to +150°C, temperature coefficient is ±100ppm/°C. Built-in standoffs permit washing and flux removal. PC mounting, Metal Glaze® element for infinite resolution.

Stock No.	Mfr's Type	Ohms	EACH 1-9	10-24	25-49	50-Up
822-3313	170-100	100	1.50	1.30	1.20	1.11
822-3326	170-500	500	1.50	1.30	1.20	1.11
822-3329	170-1k	1k	1.50	1.30	1.20	1.11
822-3332	170-2k	2k	1.50	1.30	1.20	1.11
822-3338	170-5k	5k	1.50	1.30	1.20	1.11
822-3341	170-10k	10k	1.50	1.30	1.20	1.11
822-3344	170-20k	20k	1.50	1.30	1.20	1.11
822-3353	170-50k	50k	1.50	1.30	1.20	1.11
822-3359	170-100k	100k	1.50	1.30	1.20	1.11

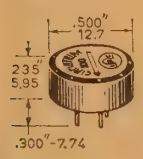
Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Trimmer Potentiometers

SINGLE TURN WIREWOUND TRIMMER POTENTIOMETERS

TYPE 100 — 1 ½" ROUND TRIMMERS

Top adjust, high revolution industrial trimmers with sealed construction to prevent performance deterioration. Sturdy 30 ounce-inch stops tested to MIL-R-27208. Tolerance: ±5%. Power rating: 1 W@70°C. Operating temp. range: −55° to +150°C. Temp. coefficient: ±50 PPM/°C. PC mounting, simplified design for accurate, fast response and reliability.



Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-1313	100-1-100	100	3.75	2.82	2.33	2.10
822-1326	100-1-500	500	3.75	2.82	2.33	2.10
822-1329	100-1-1K	1K	3.75	2.82	2.33	2.10
822-1332	100-1-2K	2K	3.75	2.82	2.33	2.10
822-1338	100-1-5K	5K	3.75	2.82	2.33	2.10
822-1341	100-1-10K	10K	3.75	2.82	2.33	2.10

TYPE 110 — ½" ROUND TRIMMERS

Thumbwheel adjust, high resolution industrial trimmer. Sealed construction prevents performance deterioration caused by moisture or dust. 30 ounce-inch stops tested to MIL-R-27208 eliminates overtravel damage. Tolerance: ±5%. Power rating: 1 W @ 70°C. Operating temp. range: −55° to +150°C. Temp. coefficient: ±50 PPM/°C. PC mounting.



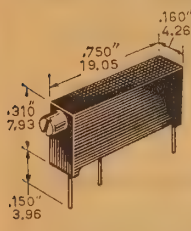
NEW!

Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-1426	110-500	500	3.75	2.82	2.33	2.10
822-1429	110-1K	1K	3.75	2.82	2.33	2.10
822-1432	110-2K	2K	3.75	2.82	2.33	2.10
822-1438	110-5K	5K	3.75	2.82	2.33	2.10
822-1441	110-10K	10K	3.75	2.82	2.33	2.10

MULTI-TURN CERMET AND WIREWOUND TRIMMER POTENTIOMETERS

TYPE 960 — 20 ¾" RECTANGULAR TRIMMERS

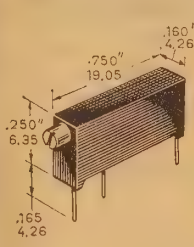
High performance cermet element industrial trimmers. Completely sealed against dust, humidity, automatic soldering, fluxing, and board cleaning. Maximum reliability and infinite resolution in all environments. Tested to MIL-R-22097. Tolerance: ±10%. Power rating: 0.75W @ 40°C. Operating temp. range: −65° to +125°C. Temp. coefficient: ±100 PPM/°C. PC mounting. 20 turns ADJ.



Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-8113	960-20-100	100	1.20	1.06	.96	.88
822-8120	960-20-200	200	1.20	1.06	.96	.88
822-8126	960-20-500	500	1.20	1.06	.96	.88
822-8129	960-20-1K	1K	1.20	1.06	.96	.88
822-8132	960-20-2K	2K	1.20	1.06	.96	.88
822-8138	960-20-5K	5K	1.20	1.06	.96	.88
822-8141	960-20-10K	10K	1.20	1.06	.96	.88
822-8144	960-20-20K	20K	1.20	1.06	.96	.88
822-8153	960-20-50K	50K	1.20	1.06	.96	.88
822-8159	960-20-100K	100K	1.20	1.06	.96	.88
822-8168	960-20-200K	200K	1.20	1.06	.96	.88
822-8180	960-20-500K	500K	1.20	1.06	.96	.88
822-8187	960-20-1meg	1meg	1.20	1.06	.96	.88

TYPE 961 — 20 ¾" RECTANGULAR TRIMMERS

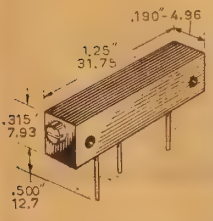
Low profile, high performance cermet element industrial trimmers. Construction insures infinite resolution in all environments. Maximum reliability. Completely sealed against dust, humidity, automatic soldering, fluxing, and board cleaning. Tested to MIL-R-22097. Tolerance: ±10%. Power rating: 0.75W @ 40°C. Operating temp. range: −65°C to +125°C. Temp. coefficient: ±100 PPM/°C. PC mounting. 20 turns ADJ.



Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-8713	961-20-100	100	1.20	1.06	.96	.88
822-8720	961-20-200	200	1.20	1.06	.96	.88
822-8726	961-20-500	500	1.20	1.06	.96	.88
822-8729	961-20-1K	1K	1.20	1.06	.96	.88
822-8732	961-20-2K	2K	1.20	1.06	.96	.88
822-8738	961-20-5K	5K	1.20	1.06	.96	.88
822-8741	961-20-10K	10K	1.20	1.06	.96	.88
822-8744	961-20-20K	20K	1.20	1.06	.96	.88
822-8753	961-20-50K	50K	1.20	1.06	.96	.88
822-8759	961-20-100K	100K	1.20	1.06	.96	.88
822-8768	961-20-200K	200K	1.20	1.06	.96	.88
822-8780	961-20-500K	500K	1.20	1.06	.96	.88
822-8787	961-20-1meg	1meg	1.20	1.06	.96	.88

TYPE 450 — 21 1¼" RECTANGULAR TRIMMERS

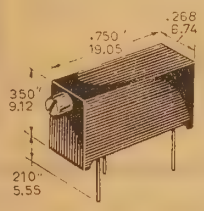
Military style and performance cermet element industrial trimmers have rigid unibody molded case construction. Infinite resolution in all environments. Tested to MIL-R-22097, characteristic C. Tolerance: ±10%. Power rating: 1W@70°C. Operating temp. range: −55°C to +150°C. Temp. coefficient: ±100 PPM/°C. PC mounting. 22 ± 5 turns ADJ.



Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-5413	450-20-100	100	4.10	3.08	2.54	2.30
822-5426	450-20-500	500	4.10	3.08	2.54	2.30
822-5429	450-20-1K	1K	4.10	3.08	2.54	2.30
822-5432	450-20-2K	2K	4.10	3.08	2.54	2.30
822-5438	450-20-5K	5K	4.10	3.08	2.54	2.30
822-5441	450-20-10K	10K	4.10	3.08	2.54	2.30
822-5444	450-20-20K	20K	4.10	3.08	2.54	2.30
822-5453	450-20-50K	50K	4.10	3.08	2.54	2.30
822-5459	450-20-100K	100K	4.10	3.08	2.54	2.30
822-5487	450-20-1meg	1meg	4.10	3.08	2.54	2.30

TYPE 980 — 20 ¾" RECTANGULAR TRIMMERS

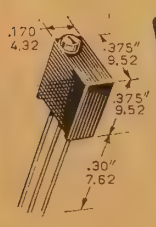
Rugged, high performance cermet element industrial trimmers are completely sealed against dust, humidity, automatic soldering, fluxing, and board cleaning. Maximum reliability with infinite resolution in all environments. Tested to MIL-R-22097. Tolerance: ±10%. Power rating: 0.75W @ 40°C. Operating temp. range: −65° to +125°C. Temp. coefficient: ±100 PPM/°C. PC mounting. 20 turns ADJ.



Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-8226	980-20-500	500	1.20	1.06	.96	.88
822-8229	980-20-1K	1K	1.20	1.06	.96	.88
822-8232	980-20-2K	2K	1.20	1.06	.96	.88
822-8238	980-20-5K	5K	1.20	1.06	.96	.88
822-8241	980-20-10K	10K	1.20	1.06	.96	.88
822-8244	980-20-20K	20K	1.20	1.06	.96	.88
822-8253	980-20-50K	50K	1.20	1.06	.96	.88
822-8259	980-20-100K	100K	1.20	1.06	.96	.88
822-8268	980-20-200K	200K	1.20	1.06	.96	.88
822-8280	980-20-500K	500K	1.20	1.06	.96	.88

TYPE 752 — 208 ⅜" SQUARE TRIMMERS

Low cost cermet element commercial trimmer has self locking shaft for stable settings. Readily solderable pins make wave soldering easier. Infinite resolution. Tested to MIL-R-22097. Tolerance: ±10%. Power rating: 0.5W @ 70°C. Operating temp: 0°C to +100°C. Temp. coefficient: ±100 PPM/°C. Vertical PC mounting. 24 ± 3 turns ADJ.

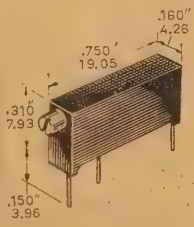


NEW!

Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-2229	752-208-1K	1K	2.13	1.90	1.70	1.57
822-2232	752-208-2K	2K	2.13	1.90	1.70	1.57
822-2238	752-208-5K	5K	2.13	1.90	1.70	1.57
822-2241	752-208-10K	10K	2.13	1.90	1.70	1.57
822-2244	752-208-20K	20K	2.13	1.90	1.70	1.57
822-2253	752-208-50K	50K	2.13	1.90	1.70	1.57
822-2259	752-208-100K	100K	2.13	1.90	1.70	1.57
822-2287	752-208-1meg	1meg	2.13	1.90	1.70	1.57

TYPE 910 — 20 ¾" RECTANGULAR TRIMMERS

High performance wirewound element industrial trimmers with maximum reliability and ultra-stable operation. Completely sealed to withstand automatic soldering, fluxing, and board washing. Tested to MIL-R-27208. Tolerance: ±10%. Power rating: 1W @ 40°C. Operating temp. range: −65°C to +125°C. Temp. coefficient: ±50 PPM/°C. PC mounting.

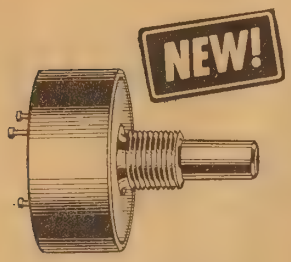


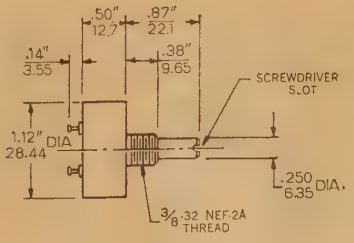
Stock No.	Mfr's Type	Ohms	Price 1-9	10-24	25-49	50-Up
822-7713	910-20-100	100	2.38	1.79	1.47	1.33
822-7720	910-20-200	200	2.38	1.79	1.47	1.33
822-7726	910-20-500	500	2.38	1.79	1.47	1.33
822-7729	910-20-1K	1K	2.38	1.79	1.47	1.33
822-7732	910-20-2K	2K	2.38	1.79	1.47	1.33
822-7738	910-20-5K	5K	2.38	1.79	1.47	1.33
822-7741	910-20-10K	10K	2.38	1.79	1.47	1.33
822-7744	910-20-20K	20K	2.38	1.79	1.47	1.33

See Page 2 for the Allied Electronics Facility Nearest You

Potentiometers

SERIES 112-P132 1-WATT SOLID MOLDED ELEMENT CONDUCTIVE PLASTIC POTENTIOMETER

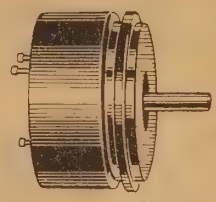


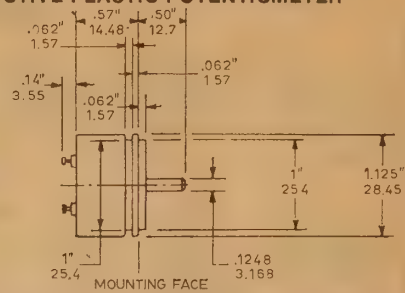


The 112-P132 conductive plastic potentiometer has infinite resolution with a minimum life of 5,000,000 revolutions. The raised molded track and high contact pressure make this unit particularly suitable for high dynamic applications. 100 g shock, 100-20,000 Hz at 50 g. Impervious to most gases and oils. Resistance tolerance ±20%; linearity ±2%; electrical angle 340° mechanical angle 360°, stainless steel shaft; brass bushing.

Stock No.	Mfr's Type	Ohms	EACH			
			1-9	10-24	25-99	100-Up
606-2010	112-P132-102	1k	25.00	22.00	20.00	18.00
606-2020	112-P132-502	5k	25.00	22.00	20.00	18.00
606-3030	112-P132-103	10k	25.00	22.00	20.00	18.00
606-3040	112-P132-203	20k	25.00	22.00	20.00	18.00

SERIES 112-P19 1-WATT PRECISION SOLID MOLDED ELEMENT CONDUCTIVE-PLASTIC POTENTIOMETER





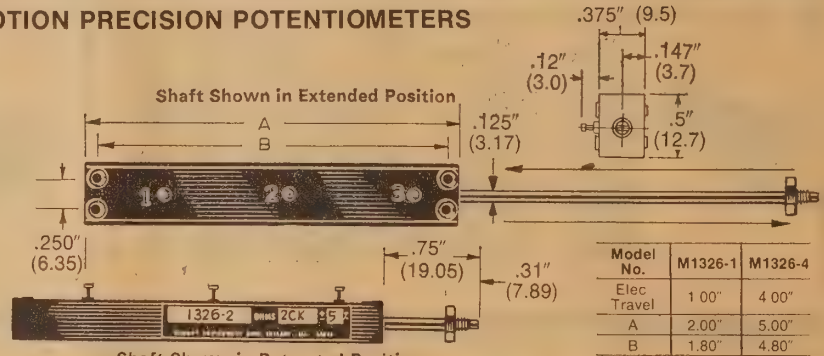
Widely used in aerospace and automation applications the series 112-P19 features infinite resolution and a life expectancy (revolutions at 40 rpm) of 20,000,000 cycles. The molded raised track and special wiper material form a unique quality that results in rotational life far exceeding that of conventional film type potentiometers. Gold plated terminals, beryllium copper wiper spring, stainless steel shaft. Operating Temp. Range: −55°C to 105°C. Total resistance tolerance: ±10%; independent linearity: ±0.5%; Temperature coefficient (ppm/°C): 500; moment of inertia (gm-cm²): 0.2; Starting torque (oz-in): .50. Stainless steel ball bearings. Wt. 6 oz.

Stock No.	Mfr's Type	Ohms	EACH			
			1-9	10-24	25-99	100-Up
606-4001	112-P19-102	1K	38.00	34.00	30.00	27.00
606-4002	112-P19-502	5K	38.00	34.00	30.00	27.00
606-4003	112-P19-103	10K	38.00	34.00	30.00	27.00
606-4004	112-P19-203	20K	38.00	34.00	30.00	27.00

TYPE M1326 LINEAR MOTION PRECISION POTENTIOMETERS

- **Compact, High-Quality at Low Cost**
- **Low Shaft Frictional Force**
- **Total Resistance Tolerance ±5%**
- **Temp. Range: −55°C to +125°C**
- **1″ and 4″ Linear Travel Units for Systems and Instrumentation**

The 1326 linear motion wirewound potentiometer enjoys a unique position. It combines the best electrical characteristics in the smallest size at the lowest cost. An asbestos-epoxy terminal strip, riveted to an anodized aluminum housing, insures rigidity as well as terminal solidity during production soldering. A solid precious metal contact engaging the precision wirewound mandrel produces exceptional linear and resolution characteristics. For applications where forces are limited, such as in instrumentation, the 1326 is ideal because of its low shaft frictional force as well as small size and light weight.



Model No.	M1326-1	M1326-4
Elec Travel	1.00″	4.00″
A	2.00″	5.00″
B	1.80″	4.80″

MODEL M1326-1 ONE-WATT POTENTIOMETER

Stock No.	Ohms	Stock No.	Ohms	EACH			
				1-9	10-24	25-99	100-Up
606-1025	500	606-1040	5K	36.00	32.00	28.00	25.00
606-1030	1K	606-1045	10K	36.00	32.00	28.00	25.00

MODEL M1326-4 FOUR-WATT POTENTIOMETER

Stock No.	Ohms	Stock No.	Ohms	EACH			
				1-9	10-24	25-99	100-Up
606-2025	1K	606-2040	10K	38.00	34.00	30.00	27.00
606-2030	5K	606-2045	20K	38.00	34.00	30.00	27.00

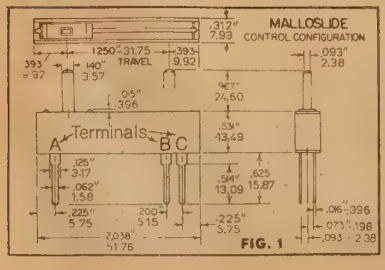
ELECTRICAL AND MECHANICAL CHARACTERISTICS

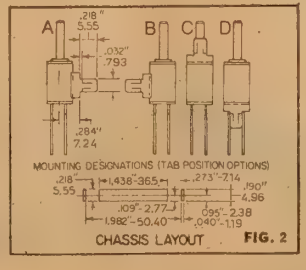
	Model M1326-1	Model M1326-4
Total Resistance Tolerance	±5%	±5%
Theoretical Resolution (Inch)	.006 to .001	.006 to .001
Independent Linearity	±1.2% to ±.2%	±.3% to ±.1%
Theoretical Electrical Travel (Inches)	1.00	4.00
Theoretical Electrical Travel Tolerance (Inches)	±.010	±.010
Total Mechanical Travel (Inches)	1.10	4.10
Temperature Coefficient (PPM/°C)	50	50
Operating Temperature Range	−55° to 125°C	−55° to 125°C
Power Rating (Watts at 40°C)	1	4
Dielectric Strength (Volts, RMS for 60 Sec.)	750	750
Life Expectancy (Cycles at 60 In./Min.)	500,000	500,000
Shaft Frictional Force (Ounces)	4	4
Weight (Ounces)	3	6
Bearings	Nylon	Nylon

TYPE MS "MALLOSLIDE" SLIDING POTENTIOMETERS



Designed primarily for use in TV sets as a volume, tone and/or linearity adjustment control. These controls are tab mount with four different configurations. The case is made of glass-filled nylon structure with a nylon shaft. Wattage ratings vary with resistance and taper. **Resistance Range:** 600 to 120K ohms. **Tolerance:** ±30%. **Wattage:** Linear Taper — 600-120KΩ, 0.5W. Audio Taper — 5K-25KΩ, 0.5W. **Initial Noise Level:** Under 0 dB. **Travel Length:** 1¼″. **Life Test:** 10,000 cycles; wear test less than 8% change. **Torque:** 2-10 oz. **Audio Taper:** Widely used on both stereo and television receivers, the MS Series is dimensioned to permit direct replacement in many American-manufactured TV sets. Max. operating voltage, for audio and linear taper, is up to 750VDC across element terminals. Shelf life is indefinite, with no measureable change.





AUDIO TAPER

Stock No.	Type No.	Mtg. (Fig. 2)	Ohms	EACH			
				1-24	25-49	50-99	100-Up
854-4240	MSC53A	C	5000	2.06	1.23	1.14	1.03
854-4260	MSC63A	C	6000	2.06	1.23	1.14	1.03
854-4280	MSC253A	C	25K	2.06	1.23	1.14	1.03

LINEAR TAPER

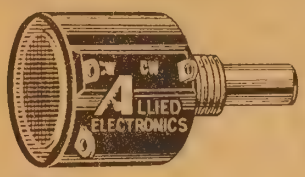
Stock No.	Type No.	Mtg. (Fig. 2)	Ohms	EACH			
				1-24	25-49	50-99	100-Up
854-4100	MSC62L	C	600	1.90	1.17	1.08	.95
854-4120	MSC13L	C	1000	1.90	1.17	1.08	.95
854-4140	MSC14L	C	10K	1.90	1.17	1.08	.95
854-4160	MSD253L	D	25K	1.90	1.17	1.08	.95
854-4180	MSC124L	C	120K	1.90	1.17	1.08	.95

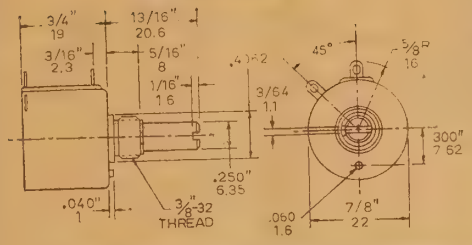
Knob. Type MSI. For audio and linear sliding pots.
854-4295. 1-24 ..... Each .24 25-Up ..... Each .14

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Allied® Ten-Turn Potentiometers

ALLIED'S OWN PRECISION-MADE 2-WATT 10-TURN MINIATURE POTENTIOMETERS AT VERY REASONABLE PRICES





Features high-impact plastic case, terminals. Have ¼" stainless steel slotted shaft. Mechanical travel, 3600° (+10°, −0°); electrical angle, 3600 (+10°, −0°) Resis tol., ±5%. Power rating: 2 watts @ 20°C. End resis., 0.25% or 1 ohm. Dielectric strength: 1000 V rms. Insulation resistance: 1000 megohms @ 500 VDC. Independent or zero based linearity .25%. Torque, 1.5 oz.-in. maximum. Stop strength, 50 oz.-in. minimum. Operating temperature range, −55°C to 105°C. Vibration, 10G, 55-2000 Hz. Shock, 50G. Glass filled nylon housing, anodized aluminum bushing. Gold plated beryllium copper terminals. Available in a wide range of values to suit varied applications. 500,000 revolutions, mechanical and electrical life.

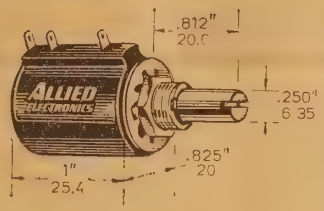
RESOLUTION TABLE

Ohms	Resolution	Ohms	Resolution
100	.055	10k	.017
200	.037	20k	.015
500	.030	25k	.013
1000	.025	50k	.011
2000	.021	100k	.009
2500	.020	200k	.007
5000	.020	....	...

Our Ten-Turn Potentiometers Have the Features of Name-Brand Potentiometers but at Competitive Prices

Stock No.	Allied Type 3-	Ohms	EACH 1-9	10-24	25-49	50-Up
522-3101	101	100	6.53	5.22	4.05	3.50
522-3201	201	200	6.53	5.22	4.05	3.50
522-3501	501	500	6.53	5.22	4.05	3.50
522-3102	102	1000	6.53	5.22	4.05	3.50
522-3202	252	2500	6.53	5.22	4.05	3.50
522-3502	502	5000	6.53	5.22	4.05	3.50
522-3103	103	10k	6.53	5.22	4.05	3.50
522-3203	203	20k	6.53	5.22	4.05	3.50
522-3204	253	25k	6.53	5.22	4.05	3.50
522-3503	503	50k	6.73	5.42	4.25	3.70
522-3104	104	100k	6.73	5.42	4.25	3.70
522-3205	204	200k	7.03	5.82	4.68	3.90

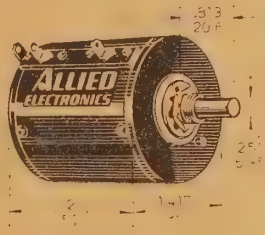
ALLIED 3-WATT TEN-TURN POTENTIOMETERS



TYPE 5. 10-Turn Potentiometer. Power rating: 3 watts at 70°C ambient. Screw driver adj. slot. Ribbon welded multi wire gold plated terminals. High temperature plastic with stainless steel shaft. Operating temperature −55°C to +125°C. Life shaft revolutions, 2,000,000. Resistance tolerance, ±3.0%. Independent linearity, ±.25%. Electrical travel, 3600° ±5%. Mechanical travel, 3600°(+10° −0°). Dielectric strength, 1000 VDC. Insulation resistance, 1000 megohms at 500 VDC. Running torque, 0.6 oz.-in. maximum. Stop strength, 48 oz.-in. minimum. Shpg. wt. 1.7 oz.

Stock No.	Allied Type	Std. Res. Ohms See Table B	EACH 1-9	10-24	25-49	50-Up
522-51RC	5	100, 500, 1K, 2K, 5K, 10K	12.33	10.90	9.50	8.90
522-5144	5	20K	13.68	11.90	10.50	9.50
522-51RC	5	50K, 100K	15.30	12.33	10.90	9.90

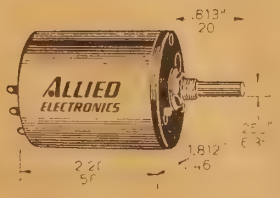
ALLIED 6-WATT TEN-TURN POTENTIOMETERS



TYPE 7. Highly stable 10-turn adjustment control. Power rating 6 watts at 40°C. Operating Temperature: −55°C to +125°C. High temperature plastic case with high resolution winding and stainless steel shaft. Resistance tolerance, ±3%. Insulation resistance, 1000 VDC minimum. Dielectric strength, 1000 VDC minimum. Rotational life, 1,000,000 turns. Torque, 1.7 oz.-in. maximum. Stop strength 125 oz.-in. maximum. Electrical travel, 3600° ±5°. Mechanical travel, 3600° (+10° −0°). Av. shpg. wt. 4 oz.

Stock No.	Allied Type	Linearity	Std. Res. Ohms See Table B	EACH 1-9	10-24	25-49	50-Up
522-71RC	7	±.25%	1K, 2K, 5K, 10K, 100K, 200K	21.50	20.00	19.00	17.65
522-72RC	7	±.1%	1K, 2K, 5K, 10K, 100K, 200K	33.50	30.00	27.00	24.00
				21.50	20.00	19.00	17.65
				33.50	30.00	27.00	24.00

ALLIED 10-WATT PRECISION TEN-TURN POTENTIOMETERS



TYPE 8. Features zero-based linearity. 10-Turn precision pot., long life, with all metal case. Rated 10 watts at 40°C. Resistance tolerance, ±5%. Operating temperature range, −55°C to +125°C. Stainless steel shaft. Life shaft revolutions, 2,000,000. Electrical travel, 3600° ±5°. Mechanical travel, 3600°(+10° −0°). Insulation resistance, 1000 megohms minimum at 500 VDC. Dielectric strength, 1000 VDC minimum. Running torque, 2.2 oz.-in. maximum. Stop strength, 125 oz.-in. minimum. Av. shpg. wt. 4.2 oz.

Stock No.	Allied Type	Zero Based Linearity	Std. Res. Ohms See Table B	EACH 1-9	10-24	25-49	50-Up
522-81RC	8	.25%	500, 1K, 2K, 5K, 10K, 50K, 100K, 300K	12.50	11.00	9.90	8.90
522-82RC	8	.1%	100, 1K, 2K, 5K, 10K, 50K, 100K, 300K	16.12	14.50	13.00	11.90
				33.50	30.00	27.00	24.00
				12.50	11.00	9.90	8.90
				16.12	14.50	13.00	11.90
				33.50	30.00	27.00	24.00

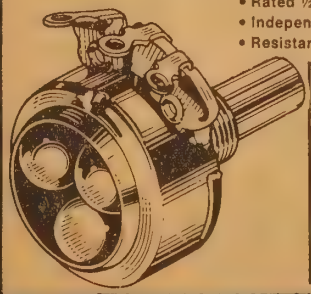
TABLE B — IMPORTANT ORDERING INFORMATION

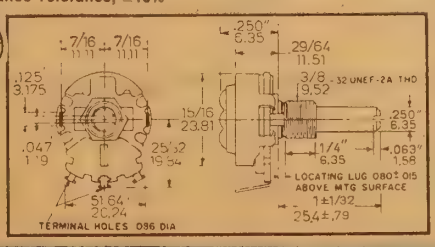
To Order: Complete the Stock Number shown by placing the designated Resistance code for Ohms Value where RC appears in the Stock Number. Each particular listing shows what ohm values are available.

Value	RC	Value	RC	Value	RC	Value	RC
100	21	2k	32	20k	44	100k	59
500	26	5k	38	25k	47	200k	60
1k	29	10k	41	50k	53	300k	65

TYPE VA-45 ½-WATT CARBON POT

- **Rated ½ Watt (up to 10k Ohms) at 55°C**
- **Independent Linearity, ±10%**
- **Resistance Tolerance, ±10%**





For low power and sensitive setability applications. Replaces backlash units. For CRT display position, gain, null, bushing-mounted trimmer-type and DC balance controls. Wide range of industrial, military and consumer electronic applications. Turn ratio 10¼ turns. **VAC:** Bushing to term., 1000 VAC at high pot test for 1 min., 500 VAC operating maximum; 500 VAC across end terminals. Shpg. wt. 4 oz. **See pricing table below.**

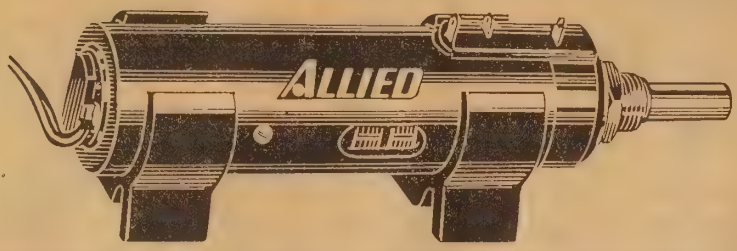
Stock No.	Type	Ohms	Stock No.	Type	Ohms	Stock No.	Type	Ohms
540-2015	VA-45-100	100	540R2040	VA-45-5000	5000	.....	.....	.....
.....	.....	...	540-2045	VA-45-10k	10k	540-2075	VA-45-500k	500k
540-2025	VA-45-500	500	540-2053	VA-45-25k	25k	540R2080	VA-45-1M	1 Meg
540R2030	VA-45-1000	1000	540-2060	VA-45-50k	50k	.....	.....	.....
.....	.....	....	540R2065	VA-45-100k	100k	.....	.....	.....

EACH 1-9	10-24	25-49	50-Up
3.75	3.25	2.86	2.59

Motor Controlled and Multi-Turn Potentiometers

A "Milestone" in Potentiometer Design from Allied!

MODEL 9 MOTOR-CONTROLLED 10-TURN POTENTIOMETERS



- Completely Self-Contained
- Powered by Operational Amplifier or External 6/12 VDC Supply
- Equivalent to Beckman/Helipots
- Can Be Mounted Directly to Circuit Board or Easily Changed for Panel Mounting

A revolutionary breakthrough in potentiometer design — Allied Electronics' new Model 9 Motor-Controlled 10-Turn Potentiometer. It gives the design engineer new latitudes in Op-Amp work and other functions. The Model 9 operates from 6 or 12 Volt DC input, from an operational amplifier or external power supply. Some of the more common and readily available Op-Amp types are: 301, 741, 748; and, where dual amplifiers are needed, 1458. The Model 9 may be knob-adjusted during motor off time. Plastic mounting clamps may be rotated or moved forward and backward for convenient installation. Can be installed directly on circuit board or easily removed for panel mounting. **Operating Current:** approx. 12 mA. **Clutching Current:** approx. 20 mA. **Potentiometer RPM:** 1, 3, 10 and 20, obtained by a precision gear train driven by an 11,000 to 20,000 RPM motor depending upon input voltages.

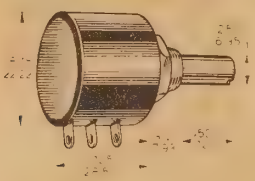
(Other speeds, voltages and resistances available upon request with minimum 10 each.)

Stock No.	Allied Type	Required Voltage	Motor Speed	Resistance	EACH 1-9	EACH 10-24	EACH 25-Up
522-9500	9	6 VDC	1 RPM	5K	108.33	89.36	77.14
522-9505	9	6 VDC	10 RPM	5K	108.33	89.36	77.14
522-9510	9	6 VDC	1 RPM	10K	108.33	89.36	77.14
522-9515	9	6 VDC	10 RPM	10K	108.33	89.36	77.14
522-9520	9	12 VDC	3 RPM	5K	108.33	89.36	77.14
522-9525	9	12 VDC	20 RPM	5K	108.33	89.36	77.14
522-9530	9	12 VDC	3 RPM	10K	108.33	89.36	77.14
522-9535	9	12 VDC	20 RPM	10K	108.33	89.36	77.14

7

2-WATT 10-TURN POTENTIOMETER

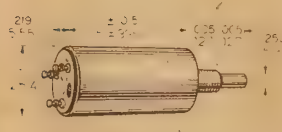
NEW!



Type 6800. Suitable for varied commercial and industrial applications. Only 1 1/16" behind mtg. panel. Independent linearity of .25%. Tolerance: ±5%. 7/8" dia. Temp. range: −55° to +105°C. Torque 2 oz.-in. max. 10-turn rotary type. Power rating: 2 watts at 40°C. Withstands shocks up to 50 g. Rugged, reliable construction includes brazed terminations, permanently sealed end lids and flame retardant case material. Locating pin and screwdriver adj. slotted shaft. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Std. Res. Ohms See Table A	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
822-90RC	6800	500, 1k, 5k, 10k, 20k, 50k, 100k	10.63	6.16	5.74	5.31

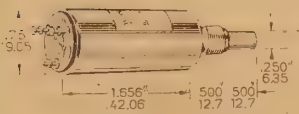
1" DIAMETER 10-TURN ROTARY POTENTIOMETER



Type 7400. Precision wirewound potentiometer is 1" in dia. Rotary type. Molded rear terminals save panel space. Wraparound connectors. Shafts mate with standard counting dials. 100 oz.-inch stop system prevents damage. Tolerance, ±5%. Power watts 3/40°C. Temp. range, 65/+125°C. Coef., ±70ppm/°C max. Independent linearity, ±0.25%. Turns, 10. Rotation, 3600° (+6°, −0°). Meets or exceeds **MIL-R-12934.** Screwdriver adj. slotted shaft. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Std. Res. Ohms See Table A	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
822-92RC	7400	500, 1k, 5k, 10k, 20k, 50k; 100k	22.50	18.13	16.88	15.63

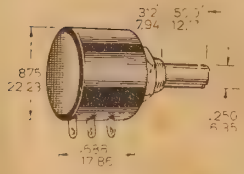
¾" DIAMETER 10-TURN ROTARY POTENTIOMETER



Type 7500. Metal encased. One piece bushing and front header of nickel-plated brass. Moisture and dust-resistant. Separate electrical and mechanical sections. Gold-plated terminals. Maximum starting and running torque, 2 oz. in. Temperature range: −65°C to +125°C. 3-watt power rating at 40°C ambient. ¾" diameter x 1 21/32" long. Resistance tolerance: ±5%. ¼" diameter shaft extends ½" beyond 3/8-32 × ½" long bushing. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Std. Res. Ohms See Table A	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
822-93RC	7500	100, 250, 1K, 5K, 10K, 20K, 100K	24.84	20.01	18.63	17.25

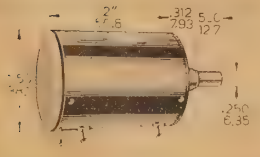
3-WATT 10-TURN POTENTIOMETER



Type 8400. Suited for varied commercial and industrial applications. Silver-brazed termination provides rugged, dependable construction. Tolerance: ±5%. 7/8" diameter. Temperature range, −55 to +105°C. TC. ±70 ppm/°C. Torque, 1 oz.-in. max. 10-turn pot. Power watts 3 at 70°C ambient. Projects 1 1/8" behind panel. Screwdriver adj. slot. Ribbon welded, multi-wire terminals. Capable of withstanding shocks up to 50g. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Std. Res. Ohms See Table A	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
822-96RC	8400	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K	13.05	10.51	9.79	9.06

1½" DIAMETER 10-TURN POTENTIOMETER



Type HD-150. Highly stable, critical adjustment control. Power 3 watts at 40°C ambient. Operating temp.: −55°C to +100°C. Resistance tolerance: ±3%. Patented metal-to-metal stop system with mtg. bushing. Torque, 2 oz.-in. max. Phenolic case, 1½" diameter x 2" long. ¼" dia. nickel-plated brass shaft extends ½" beyond 3/8"-32x 9/16" long bushing. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Std. Res. Ohms See Table A	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
822-02RC	HD-150	200, 500, 1K, 2K, 5K, 10K, 20K, 100K	39.60	31.90	29.70	27.50

ORDERING INFORMATION

To order, replace the Allied Stock Number prefix RC with the appropriate numeric code shown in parenthesis in Table A, right. For example: Series HD-150 at 1000 ohms equals Stock number 822-02(29). Only those values shown in series listing are available.

TABLE A

Value	RC	Value	RC	Value	RC
100	(21)	1000	(29)	20k	(44)
200	(22)	2000	(32)	50k	(53)
250	(23)	5000	(38)	100k	(59)
500	(26)	10k	(41)		

See Page 2 for the Allied Electronics Facility Nearest You

Digital and Turn-Counting Dials

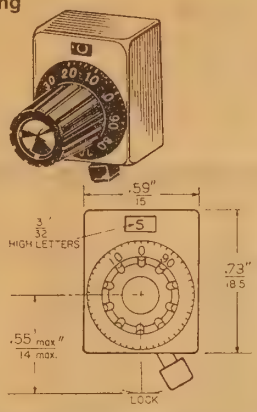
ALLIED MINIATURE 10-TURN COUNTING DIAL

NEW!

- **Top Reading Rectangular Turns-Counting Dial.**
- **Positive Action Lock At Bottom.**

Type MF10-15B-Y. Dials have patented internal bushings that rotate to eliminate lumps or binds in assembly or operation. The frames and covers are aluminum. Finger tip black plastic knob with white-filled numbers. Fits ⅛" (3.17mm) diameter shafts; ¼-32 threaded bushings. Extends less than 1" (25.4mm) from panel.

522-1015. 1-4 ..... Each 14.17
5-9 ..... Each 12.00
10-24 ..... Each 11.00
25-Up ..... Each 10.00

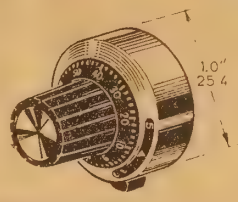


ALLIED 1" DIAMETER, 10-TURN COUNTING DIAL

NEW!

Type MB10-25B6.5 1" (25.4mm) diameter. Satin finish aluminum body. Black plastic finger tip knob with white filled, easy-to-read numbers. Over the center lock for positive locking action. Fits ¼" (6.35mm) shaft.

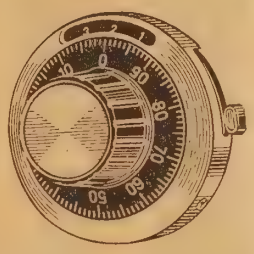
522-1025. 1-4 ..... Each 14.50
5-9 ..... Each 10.50
10-24 ..... Each 8.95
25-Up ..... Each 7.50



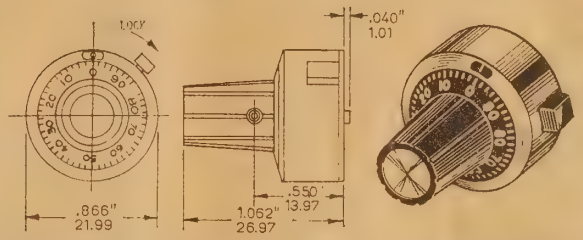
ALLIED 1 13/16" DIAMETER 20-TURN COUNTING DIAL

Type MF20-46B6.5. 1 13/16" diameter black plastic knob, aluminum base. Large, easy to read numbers. Over the center lock for positive locking action. Fits ¼" shafts, 10-turn and multi-turn potentiometers.

522-1370. 1-4 ..... Each 13.95
5-9 ..... Each 11.20
10-24 ..... Each 9.40
25-Up ..... Each 7.89



ALLIED 7/8" DIAMETER 20-TURN COUNTING DIAL



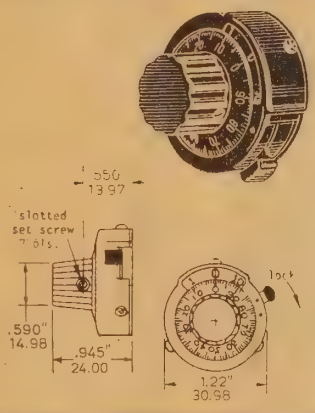
Type MF20-22B6.5. This miniature 7/8" diameter turns counting dial is small but don't let the size fool you—it does the job! Constructed of a rigid aluminum casting base and black plastic finger tip knob for ease of adjustment. White filled numbers, with black background. Set screw is provided for locking dial to component shaft. Locking brake is a standard feature. For ¼" diameter shafts, 10-turn and multi-turn potentiometers.

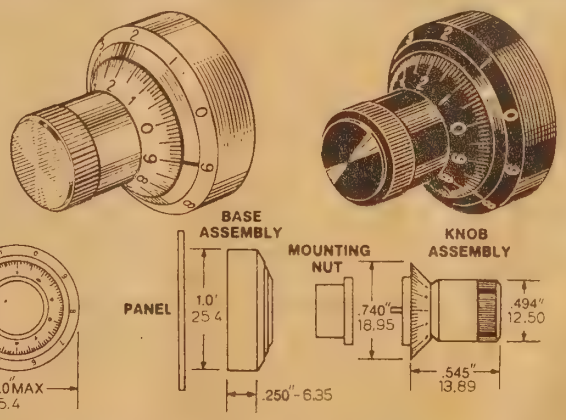
522-1020. 1-4 ..... Each 13.60
5-9 ..... Each 10.80
10-24 ..... Each 8.95
25-Up ..... Each 7.50

ALLIED 10-TURN COUNTING DIAL

Type MD10-30B6.5 Low cost, precision turns counting dial. Easy to read numbers which can be seen from longer distances. Lock is easy to apply with red and green indicators of lock position. Numbered wheels progress smoothly without flip action, to avoid misreadings. For shaft diameters of ¼" or 6 mm. Black finish. Hex wrench not required.

522-1001. 1-4 ..... Each 9.13
5-9 ..... Each 7.00
10-24 ..... Each 6.00
25-Up ..... Each 5.00





10-TURN CONCENTRIC SCALE DIAL

- **Need No Special Panel Holes for Mounting**
- **Life-Tested for ¼-Million Cycles Without Appreciable Wear**
- **Reading accuracy of 1000:1 with zero reading error**

For precision potentiometers. Dial backlash is eliminated by locking knob to shaft and non-rotating base to panel. Shaft extends from panel 0.60" (15.24mm) minimum to 0.80" (20.32mm) maximum (.725 [18.41mm] optimal). Max. bushing extends from panel, 0.296" (7.51mm). Dial body diameter, 1" max. With mounting hardware. Bushing thread is ¼-32-NEF2 for ⅛" (3.175mm) shaft. Wt. 3 oz. (6.6kg).

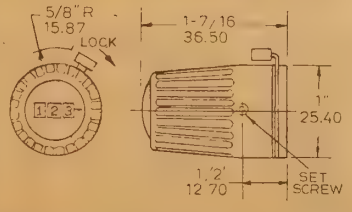
Stock No.	Mfr's Type	Lock Mech.	Finish	Shaft Dia.	EACH 1-4	5-9	10-24	25-Up
822-0801	B801/VN421	No	Black	⅛" (3.17mm)	10.42	7.87	7.60	7.06
822-0802	B802/VN422	Yes	Black	⅛" (3.17mm)	11.34	8.48	8.19	7.61
822-0462	RD-462	Yes	Clear	¼" (6.35mm)	10.00	8.30	7.70	6.80

ALLIED DIGITAL COUNTING DIAL

Type DA10-24B6.5. An excellent choice in a precision-made digital counting dial. Gear driven numbers. Counting dial is equipped with a magnifying lens for easy readability, with lock. Black finish. Made for potentiometers with ¼" or 6 mm shafts. Mounting hardware is supplied.

522-1010. 1-4 ..... Each 14.35
5-9 ..... Each 11.50
10-24 ..... Each 9.60
25-Up ..... Each 8.20





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Mallory 85

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Arco 76 77
Centralab 76 77

Computer Grade Capacitors
Allied 83
Mallory 83

Disc Capacitors
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Centralab 76. 77

Electrolytic Capacitors
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Arco 79
I.C.C. 79
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Panasonic 79

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Allied 77
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All Star 86
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MYLAR WRAP TUBULAR CAPACITORS

Stock No.	Mfr's Type	Page No.	CORNELL DUBILIER	SPRAGUE	TRW
852R1412	EWF05010	78	WMF05P1	416P1049R5	.....
852-1413	EWF05022	78	WMF05P22	416P2249R5	.....
852-1414	EWF05033	78	WMF05P33	416P3349R5	.....
852-1415	EWF05050	78	WMF05P5	.....	.....
852-1410	EWF0510	78	WMF05W1	416P1059R5	.....
852-1411	EWF0520	78	WMF05W2	.....	.....
525-1430	EWF1A215	78	WMF1D15	.....	663UW.0015-1
852-1432	EWF1A233	78	WMF1D33	.....	663UW.0033-1
852-1433	EWF1A247	78	WMF1D47	.....	663UW.0047-1
852-1434	EWF1A268	78	WMF1D68	416P68291	663UW.0068-1
852-1424	EWF1A115	78	WMF1S15	.....	663UW.015-1
852-1426	EWF1A133	78	WMF1S33	416P33391	663UW.033-1
852-1428	EWF1A168	78	WMF1S68	416P68391	663UW.068-1
852-1417	EWF1A015	78	WMF1P15	416P15491	663UW.15-1
852-1418	EWF1A022	78	WMF1P22	416P22491	663UW.22-1
852-1440	EWF2210	78	WMF201	416P10292	663UW.001-2
852-1438	EWF2110	78	WMF2S1	416P10392	663UW.01-2
852-1439	EWF2147	78	WMF2S47	416P47392	663UW.047-2
852-1436	EWF2010	78	WMF2P1	416P10492	663UW.1-2
852-1437	EWF2022	78	WMF2P22	416P22492	663UW.22-2
852-1435	EWF210	78	WMF2W1	416P10592	663UW1.0-2
852-1449	EWF4147	78	WMF4S47	416P47394	663UW.047-4
852-1445	EWF4010	78	WMF4P1	416P10494	663UW.1-4
852-1447	EWF4047	78	WMF4P47	416P47494	663UW.47-4
852-1448	EWF4068	78	WMF4P68	.....	663UW.68-4
852-1443	EWF410	78	WMF4W1	.....	663UW1.0-4
852-1444	EWF420	78	WMF4W2	.....	663UW2.0-4
852-1454	EWF6110	78	WMF6S1	416P10396	663UW.01-6
852-1455	EWF6147	78	WMF6S47	416P47396	663UW.047-6
852-1451	EWF6010	78	WMF6P1	416P10496	663UW.1-6
852-1452	EWF6022	78	WMF6P22	416P22496	663UW.22-6
852-1453	EWF6047	78	WMF6P47	416P47496	663UW.47-6
852-1450	EWF610	78	WMF6W1	.....	663UW1.0-6
852-1428	EWF1A210	78	WMF1D2	416P10291	663UW.001-1
852-1431	EWF1A222	78	WMF102	416P22291	663UW.0022-1
852-1423	EWF1A110	78	WMF1S2	416P10391	663UW.01-1
852-1425	EWF1A122	78	WMF1S22	416P22391	663UW.022-1
852-1427	EWF1A147	78	WMF1S47	416P47391	663UW.047-1
852-1416	EWF1A010	78	WMF1P1	416P10491	663UW.1-1
852-1419	EWF1A033	78	WMF1P33	416P33491	663UW.33-1
852-1420	EWF1A047	78	WMF1P47	416P47491	663UW.47-1
852-1456	EWF1A050	78	WMF1P5	416P50491	663UW.50-1
852-1457	EWF1A068	78	WMF1P68	416P68491	663UW.68-1
852-1459	EWF1A40	78	WMF1W4	416P40591	663UW4.0-1
852-1458	EWF1A20	78	WMF1W2	416P20591	663UW2.0-1
852-1441	EWF1A150	78	WMF1S5	416P50391	663UW.050-1
852-1421	EWF1A10	78	WMF1W1	416P10591	663UW1.0-1

MYLAR RECTANGULAR CAPACITORS

Stock No.	Mfr's Type	Page No.	SPRAGUE	CORNELL DUBILIER	TRW
782-6918	1MDF-1-102	78	225P10291WD3	.....	601PE.001
782-6938	1MDF-1-222	78	225P22291WD3	.....	601PE.0022
782-6963	1MDF-1-472	78	225P47291WD3	.....	601PE.0047
782R6921	1MDF-1-103	78	225P10391WD3	.....	601PE.01
782-6931	1MDF-1-153	78	225P15391WD3	DMF-1S15	601PE.015
782-6944	1MDF-1-223	78	225P22391WD3	DMF-1S22	601PE.022
782-6957	1MDF-1-333	78	225P33391WD3	DMF-1S33	601PE.033
782-6966	1MDF-1-473	78	225P47391WD3	DMF-1S47	601PE.047
782-6972	1MDF-1-563	78	225P56391WD3	.....	601PE.056
782R6924	1MDF-1-104	78	225P10491WD3	DMF-1P1	601PE.1

FLAT METALIZED MYLAR CAPACITORS

Stock No.	Mfr's Type	Page No.	EL PAC	TRW
968-3005	ZD8514103K	78	ZD2A103K	X663F.01
968-3010	ZD8514223K	78	ZD2A223K	X663F.022
968-3020	ZD8514473K	78	ZD2A473K	X663F.047
968R3025	ZD8514104K	78	ZD2A104K	X663F.10
968-3030	ZD8514224K	78	ZD2A224K	X663F.22
968-3035	ZD8514334K	78	ZD2A334K	X663F.33
968-3040	ZD8514474K	78	ZD2A474K	X663F.47
968-3045	ZD8514684K	78	ZD2A684K	X663F.68
968R3050	ZD8514105K	78	ZD2A105K	X663F1.0
968-3055	ZD8514155K	78	ZD2A155K	X663F1.5
968-3060	ZD8514205K	78	ZD2A205K	X663F2.0
968-3065	ZD8514305K	78	ZD2A305K	X663F3.0
968-3070	ZD8514405K	78	ZD2A405K	X663F4.0
968R3075	ZD8514505K	78	ZD2A505K	X663F5.0

TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS (POLAR TYPE)

Stock No.	Mfr's Type	Page No.	SPRAGUE	CORNELL DUBILIER
854-9020	TC26C	80	TVA1205	WBR25-25
854-9022	TC2501B	80	TVA1207	WBR100-25
854-9025	TC2505C	80	TVA1209	WBR500-25
854-9026	TC2510A	80	TVA1211	WBR1000-25
854-9027	TC2515B	80	TVA1212	WBR2000-25
854-9028	TC2520A	80	TVA1213	WBR2000-25
854-9023	TC2530	80	TVA1214	WBR3000-35
854-9018	TC2550	80	TVA1214.4	WBR5500-35
854-9034	TC39B	80	TVA1308	WBR50-50
854-9035	TC3501D	80	TVA1310	WBR100-50
854-9037	TC50025C	80	TVA1312	WBR250-50
854-9038	TC50050C	80	TVA1315	WBR500-50
854-9039	TC50100C	80	TVA1316	WBR1000-50
854-9041	TC50150C	80	TVA1317	.....
854-9040	TC50200A	80	TVA1318.2	WBR2000-50
854-9042	TC50300	80	TVA1318.4	WBR3000-50
854-9043	TC50500	80	TVA1318.7	WBR500-50
854-9046	TC75501A	80	TVA1319.5	WBR500-75
854-9052	TC10101B	80	TVA1346	WBR100-150
854-9055	TC10501A	80	TVA1377	WBR600-100
854-9056	TC10102	80	TVA1380	WBR1000-100
854-9057	TC40B	80	TVA1403	WBR5-150
854-9059	TC42B	80	TVA1406	WBR10-150
854-9062	TC45A	80	TVA1410	WBR20-150
854-9063	TC47A	80	TVA1412	WBR30-150
854-9064	TC48A	80	TVA1413	WBR40-150
854-9065	TC49A	80	TVA1415	WBR60-150
854-9066	TC492A	80	TVA1418	WBR80-150
854-9067	TC493B	80	TVA1420	WBR100-150
854-9068	TC495B	80	TVA1422	WBR150-150
854-9069	TC496B	80	TVA1423	WBR200-150
854-9070	TC499A	80	TVA1426	WBR350-150
854-9071	TC50XB	80	TVA1502	WBR8-250
854-9073	TC52A	80	TVA1504	WBR12-250
854-9076	TC55B	80	TVA1508	WBR20-250
854-9078	TC58A	80	TVA1511	WBR40-250
854-9079	TC59B	80	TVA1512	WBR50-250
854-9080	TC1265B	80	TVA1522	WBR100-250
854-9047	TC1266	80	TVA1526	WBR160-250
854-9048	TC1267	80	TVA1528.3	WBR300-250
854-9083	TC595A	80	TVA1600	WBR2-450
854-9086	TC62B	80	TVA1604	WBR10-450
854-9087	TC65B	80	TVA1609	WBR40-350
854-9081	TC68B	80	TVA1613	WBR60-350
854-9086	TC69A	80	TVA1620	WBR100-350
854-9083	TC692A	80	TVA1624	WBR200-350
854-9095	TC697B	80	TVA1702	WBR4-450
854-9096	TC70B	80	TVA1703	WBR5-450
854-9097	TC71C	80	TVA1704	WBR8-450
854-9100	TC74B	80	TVA1707	WBR15-450
854-9101	TC75A	80	TVA1709	WBR20-450
854-9103	TC78A	80	TVA1712	WBR40-450
854-9092	TC795A	80	TVA1714	WBR60-450
854-9094	TC805A	80	TVA1718	WBR100-450
854-9108	TC808	80	TVA1720	WBR225-450
854-9116	TC96A	80	TVA1966	WBR20-600
854-9015	TC1520C	80	TVA1170	WBR2000-15
854-9019	TC22A	80	TVA1204	WBR10-25
854-9021	TC29C	80	TVA1206	WBR50-25
854-9024	TC25025B	80	TVA1208	WBR250-25
854-9029	TC31	80	TVA1300	WBR1-50
854-9032	TC32C	80	TVA1304	WBR10-50
854-9033	TC36B	80	TVA1306	WBR25-50
854-9088	TC695B	80	TVA1701	WBR2-450
854-9089	TC72B	80	TVA1705	WBR10-450
854-9090	TC77B	80	TVA1711	WBR30-450
854-9091	TC79B	80	TVA1713	WBR50-450
854-9093	TC80B	80	TVA1716	WBR80-450
854-9098	TC807	80	TVA1718	WBR100-450

NON-POLAR TYPE TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS

Stock No.	Mfr's Type	Page No.	SPRAGUE	CORNELL DUBILIER
854-9126	TCN501A	80	TVAN1200	WNP1-50
854-9127	TCN502A	80	TVAN1301.1	WNP2-50
854-9128	TCN503A	80	TVAN1302.1	.....
854-9129	TCN504A	80	TVAN1302.5	WNP4-50
854-9130	TCN505A	80	TVAN1303.1	WNP5-50
854-9131	TCN5010A	80	TVAN1304.1	WNP10-50
854-9133	TCN510	80	TVAN1402.1	.....

See Page 2 for the Allied Electronics Facility Nearest You

Capacitor Cross-Reference

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS WITH AXIAL LEADS

Stock No.	Mfr's Type	Page No.	SPRAGUE	CORNELL DUBILIER	SPRAGUE
852-4534	TT6X1000A	80	TVA1104	WBR10006	.....
852-4547	TT10X100A	80	.....	.....	TE1119.3
852-4548	TT10X200A	80	.....	NLW225-10	TE1119.6
852-4566	TT12X2000A	80	TVA1134	WBR2000-12	.....
852-4570	TT15X1	80	TVA1140	WBR1-50	TE1148
852-4574	TT15X10	80	TVA1145	WBR1025	TE1155
852-4577	TT15X25A	80	TVA1148	NLW25-16	TE1157.1
852-4580	TT15X50A	80	TVA1150	NLW50-16	TE1160
852-4582	TT15X100A	80	TVA1160	WBR100-16	TE1162
852-4584	TT15X150A	80	TVA1160.S	NLW150-16	TE1163
852-4586	TT15X200A	80	TVA1160.6	NLW200-16	TE1164
852-4587	TT15X350	80	TVA1161.2	NLW350-16	TE1166
852-4589	TT15X500	80	TVA1162	WBR500-16	.....
852-4592	TT15X1000A	80	TVA1163	WBR1000-16	.....
852-4593	TT15X1500A	80	TVA1175.2	WBR1500-16	.....
852-4594	TT25X1	80	TVA1200	WBR1-25	TE1200
852-4595	TT25X2	80	TVA1201	WBR2-25	TE1201
852-4596	TT25X5	80	TVA1203	WBR5-25	TE1202
852-4597	TT25X10	80	TVA1204	WBR10-25	TE1204
852-4598	TT25X15A	80	TVA1204.2	NLW15-25	TE1205
852-4599	TT25X20A	80	TVA1204.5	NLW20-25	TE1206
852-4624	TT50X15A	80	TVA1305	NLW15-50	TE1304.2
852-4640	TT100X1	80	TVA1330	NLW1-100	TE1400
852-4650	TT150X4	80	TVA1402	WBR4-150	TE1503
852-4664	TT25X25B	80	TVA1205	WBR25-25	TE1207
852-4616	TT25X50A	80	TVA1206	WBR50-25	TE1209
852-4607	TT25X75A	80	TVA1206.1	NLW75-25	TE1210
852-4618	TT25X100B	80	TVA1207	WBR100-25	TE1211
852-4609	TT25X150	80	TVA1207.5	NLW150-25	TE1212
852-4610	TT25X200	80	TVA1207.7	NLW200-25	TE1213
852-4611	TT25X300	80	TVA1208.5	WBR300-25	.....
852-4612	TT25X400	80	TVA1208.7	WBR400-25	.....
852-4613	TT25X500	80	TVA1209	WBR500-25	.....
852-4615	TT25X800	80	TVA1209.4	WBR800-25	.....
852-4636	TT50X1	80	TVA1300	WBR1-50	TE1300
852-4667	TT50X2	80	TVA1301	WBR2-50	TE1301
852-4619	TT50X4	80	TVA1302.7	NLW4-50	TE1302.1
852-4660	TT50X5A	80	TVA1303	WBR5-50	TE1303
852-4622	TT50X8A	80	TVA1303.2	NLW8-50	TE1303.3
852-4663	TT50X10B	80	TVA1304	WBR10-50	TE1304
852-4665	TT50X20B	80	TVA1305.5	NLW20-50	TE1305
852-4666	TT50X25A	80	TVA1306	WBR25-50	TE1305.5
852-4627	TT50X35A	80	TVA1306.2	WBR35-50	TE1306
852-4668	TT50X50B	80	TVA1308	WBR50-50	TE1307
852-4629	TT50X75	80	TVA1309.4	NLW75-50	TE1308
852-4630	TT50X100	80	TVA1310	WBR100-50	TE1309
852-4631	TT50X150	80	TVA1311	WBR150-50	.....
852-4632	TT50X200	80	TVA1311.5	WBR200-50	.....
852-4633	TT50X250A	80	TVA1312	WBR250-50	.....
852-4634	TT50X300	80	TVA1312.1	.....	.....
852-4638	TT100X2	80	TVA1331	NLW2-100	TE1401
852-4639	TT100X5A	80	TVA1334	NLW5-100	TE1404
852-4641	TT100X10	80	TVA1337	NLW10-100	TE1407
852-4646	TT100X50	80	TVA1343	.....	.....
852-4658	TT150X1	80	TVA1400	NLW1-150	TE1500
852-4649	TT150X2	80	TVA1400.1	NLW2-150	TE1501
852-4651	TT150X5A	80	TVA1403	WBR5-150	TE1504
852-4653	TT150X10	80	TVA1406	WBR10-150	TE1507
852-4656	TT150X25	80	TVA1411	NLW25-150	.....

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS WITH AXIAL LEADS

Stock No.	Mfr's Type	Page No.	CORNELL DUBILIER	SPRAGUE		
				Type TE-	Type 30D-	Type 500D-
881-1191	ECE-B6V47	79	NLW50-6	110	506G006CB4	506G006BB4
881-1192	ECE-B6V100	79	.....	1102	107G006CC4	107G006CC4
710-1193	AME-6-B-200	79	.....	1104	207G006DC4	207G006DC4
623-1214	TD10M10	79	.....	1128	106G012BA4	106G012BA4
710-1216	AME-4-D-100	79	NLW100-12	1135	107G012CC4	107G012CC4
710-1218	AME-8-D-250	79	NLW250-12	1138	257G012DF4	257G012DF4
623-1228	TD4.7M16	79	NLW-5-15	1152	.....	.....
881-1230	ECE-B16V22	79	NLW-20-15	1157	.....	.....
710-1231	AME-2-E-025	79	NLW-25-15	1157.1	.....	.....
710-1232	AME-3-E-030	79	NLW-30-15	1158	.....	.....
881-1233	ECE-B16V47	79	NLW-50-15	1160	.....	.....
881-1234	ECE-B16V100	79	NLW-100-15	1162	.....	.....
710-1235	AME-6-E-200	79	NLW-200-15	1164	.....	.....
623-1245	TD1M25	79	.....	1200	105G025AA4	105G025AA4
881-1246	ECE-B25V2R2	79	.....	1201	.....	.....
881-1247	ECE-B25V3R3	79	.....	1201.2	405G025BA4	405G025BA4
881-1248	ECE-B25V4R7	79	.....	1202	505G025BA4	505G025BA4
710-1249	AME-2-G-006	79	NLW-6-25	1203	605G025BA4	605G025BA4
710-1250	AME-2-G-008	79	NLW-8-25	1203.5	805G025BA4	805G025BA4
881-1251	ECE-B25V10	79	NLW-10-25	1204	106G025BB4	106G025BB4
623-1252	TD15M25	79	NLW-15-25	1205	156G025BB4	156G025BB4
881-1253	ECE-B25V22	79	NLW-20-25	1206	206G025CB4	206G025CB4
710-1254	AME-3-G-025	79	NLW-25-25	1207	256G025CB4	256G025CB4
710-1255	AME-3-G-030	79	NLW-30-25	1207.5	306G025CB4	306G025CB4
881-1256	ECE-B25V33	79	NLW-35-25	1208	356G025CB4	356G025CB4
881-1258	ECE-B25V47	79	NLW-50-25	1209	506G025CC4	506G025CC4
881-1260	ECE-B25V100	79	NLW-100-25	1211	107G025DD4	107G025DD4
881-1270	ECE-B50V1	79	NLW-1-50	1300	105G050GA4	105G050BA4
881-1271	ECE-B50V2R2	79	NLW-2-50	1301	205G050BA4	205G050BA4
881-1274	ECE-B50V4R7	79	NLW-5-50	1303	505G050BB4	505G050BB4
881-1277	ECE-B50V10	79	NLW-10-50	1304	106G050CB4	106G050CB4
623-1278	TD15M50	79	NLW-15-50	1304.2	156G050CB4	156G050CB4
881-1279	ECE-B50V22	79	NLW-20-50	1305	206G050CC4	206G050CC4
710-1280	AME-4-J-025	79	NLW-25-50	1305.5	256G050CC4	256G050CC4
881-1284	ECE-B50V47	79	NLW-50-50	1307	506G050DD4	506G050DD4
881-1294	ECE-B100V1	79	.....	1400	105G100BA4	105G100BA4
710-1310	AME-3-N-001	79	NLW-1-150	1500	105G150BA4	105G150BA4

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS WITH RADIAL LEADS

Stock No.	Mfr's Type	Page No.	SPRAGUE	SPRAGUE	CORNELL DUBILIER
710-1327	ARMEA-D-010	79	503D685G016HS	.....	.....
881-1329	ECE-A10V47	79	503D476G016BB	.....	PC50-10
881-1336	ECE-A16V47	79	503D476G016BB	EV-1226	PC50-16
881-1330	ECE-A16V100	79	503D107G016CD	EV-1230	PC100-16
881-1339	ECE-A16V470	79	503D477G016DK	EV-1250	PC500-16
881-1340	ECE-A16V1000	79	503D108G016ER	EV-1260	PC1000-16
881-1352	ECE-A25V10	79	503D106G025AS	EV-1322	PC10-25
710-1353	ARMED-G-025	79	.....	.....	PC25-25
881-1354	ECE-A35V47	79	503D476G035CD	EV-1425	PC50-25
881-1355	ECE-A25V100	79	503D107G025CG	EV-1330	PC100-25
710-1356	ARMEK-G-250	79	.....	.....	PC250-25
881-1357	ECE-A25V470	79	503D477G025EK	EV-1350	.....
881-1374	ECE-A35V100	79	503D107G050DG	.....	.....
881-1350	ECE-A50V1	79	503D105G063HS	EV-1615	PC1-50

DIPPED SOLID TANTALUM CAPACITORS

Stock No.	Mfr's Type	Page No.	SPRAGUE	KEMET
852-5651	TDC685M006EL	82	196D685X9006	T360A685006AS
852-5655	TDC475M010EL	82	196D475X9010	T360A475010AS
852-5656	TDC336M010FL	82	196D336X9010	T360B336010AS
852-5657	TDC107M010GL	82	196D107X9010	T362C107010AS
852-5660	TDC226M015FL	82	196D226X9015	T360B226015AS
852-5663	TDC225M020EL	82	196D225X9020	T360B225020AS
852-5664	TDC156M020FL	82	196D156X9020	T360B156020AS
852-5666	TDC476M020GL	82	196D476X9020	T362C476020AS
852-5668	TDC107M020HL	82	196D107X9020	T362D107M020AS
852-5669	TDC685M025FL	82	196D685X9025	T360B685025AS
852R5670	TDC106M025GL	82	196D106X9025	T360B106025AS
852-5671	TDC226M025GL	82	196D226X9025	T362C226025AS
852R5674	TDC105M035EL	82	196D105X9035	T360A105035AS
852-5676	TDC225M035FL	82	196D225X9035	T360B225035AS
852-5678	TDC475M035FL	82	196D475X9035	T360B475035AS
852-5679	TDC685M035FL	82	196D685X9035	T360B685035AS
852-5680	TDC106M035FL	82	196D106X9035	T360C106035AS
852-5682	TDC226M035GL	82	196D226X9035	T360D226035AS
852-5684	TDC476M035HL	82	196D476X9035	T362D476035AS
852-5685	TDC104M050EL	82	196D104X9050	T360A104050AS
852-5688	TDC334M050EL	82	196D334X9050	T360A334050AS
852-5689	TDC474M050EL	82	196D474X9050	T360A474050AS
852-5690	TDC684M050EL	82	196D684X9050	T360A684050AS
852-5691	TDC105M050EL	82	196D105X9050	T360A105B50AS

COMPUTER GRADE ELECTROLYTIC CAPACITORS

Stock No.	Mfr's Type	Page No.	SPRAGUE	GENERAL ELECTRIC	CORNELL DUBILIER
710-0500	ARC15AC133	83	36D133G015AC2B	86F131	.....
710-0503	ARC25BC183	83	36D183G025BC2B	.....	.....
710-0511	ARC40CD253	83	36D253G040CD2B	.....	.....
710-0515	ARC75BB392	83	36D392G075BB2B	.....	.....
852-0653	CG332U025R2C	83	36DR332G025AA2A	.....	.....
852-0675	CG452U50D1	83	.....	.....	FAH4500-50-A3
852-0712	CG952U050V4C	83	.....	.....	FAH9500-50-B3
852-0640	CG223U050X4C	83	36D223G050DC2A	.....	.....
852-0635	CG241T450D1	83	.....	.....	FAH240-450-A6
852-0601	CG323U025W4C	83	36D323G025CC2B	86F142	FAHM32000-30-B3
852-0603	CG13U75B1	83	36D102G075AA2B	86F573	FAH1000-75-A1
852-0602	CG14U50F1	83	36D103G050BD2B	86F168	FAH9500-50-B3
852-0810	CGS822U025BF1	83	36D822G025AC2B	86F538	FAH8000-30-A3
852-0812	CGS652U050DD1	83	36D602G050BB2A	.....	FAH6000-50-A6
852-0811	CGS622U040BF1	83	36D622G040AB2B	86F556	FAH6300-40-A3
852-0824	CGS123U010R2C	83	36D123G010AB2A	86F111M	FAH12000-15-A2
852-0930	CGS383U015V3C	83	36D383G015BD2A	86F522	FAHM39000-10-3A
852-0953	CGS472U025R2C	83	36D472G025AB2A	86F537	FAH4600-20-A1
852-0831	CGS133U025R4C	83	36DX133G025AC2A	86F539M	FAH12000-25-A6
852-0871	CGS203U025V3C	83	36DX203G025AF2A	86F141	FAH20000-30-B3
852-0945	CGS433U025V5L	83	36D433G025CE2A	86F542	FAH42500-20-B6
852-0815	CGS113U040V3C	83	36D113G040BC2A	86F159	FAH11000-40-E3
852-0858	CGS173U075X4C	83	36D173G075DD2A	86F578	FAHM18000-75-C3
852-0870	CGS212U075R3C	83	36D212G075AC2A	.....	FAH22500-75-D6
852-0935	CGS402U100DF1	83	36D402G100BE2A	86F575	FAH4100-100-B3

MOTOR RUN AND START CAPACITORS

Stock No.	Mfr's Type	Page No.	SPRAGUE	CORNELL DUBILIER	WESTINGHOUSE
852-4130	OP370	84	.....	KGJ3030	260B435H02
852-4132	OP470	84	.....	KGJ3040	260B435H03
852-4133	OP570	84	.....	KGJ3050	260B435H04
852-4135	OP670	84	OV-2060	.....	260B435H05
852-4148	OP2070	84	OV-3200	.....	.....
852-4035	PSU10815	84	AB-1113	ETBJ110	1393791
852-4043	PSU16115	84	AB-1125	.....	1187956
852-4045	PSU18915	84	AB-1628	.....	.....
852-4054	PSU27015	84	AB-1140	ETBJ285	602327
852-4064	PSU40015	84	AB-1149	ETBJ440	1602015
852-4078	PSU10835	84	AB-1213	.....	51D8080-2
852-4157	OP1070	84	OV-3100	.....	.....
842-4158	OP540	84	OV-4050	.....	350A030-18
852-4159	OP7X570	84	OV-2075	.....	.....
852-4160	OP1570	84	OV-3150	.....	Y-49544
852-4161	OP3570	84	OR-3350	.....	350A030-21
852-4165	OP1540	84	OV-4150	.....	.....
852-4079	PSU37815	84	AB-1146	ETBJ400	1188295
852-4080	PSU108030	84	AB-1113	.....	Y-18587
852-4081	PSU21615	84	AB-1131	ETBJ225	1188299
852-4083	PSU12415	84	AB-1116	ETBJ130	1187797
852-4084	PSU32415	84	AB-1142	ETBJ340	1200598
852-4085	PSU14515	84	AB-1122	ETBJ155	19C6534-1
852-4086	PSU23215	84	AB-1134	.....	.....
852-4087	PSU24315	84	AB-1137	ETBJ255	1394229
852-4088	PSU54015	84	AB-1158	ETBJ575	1394234

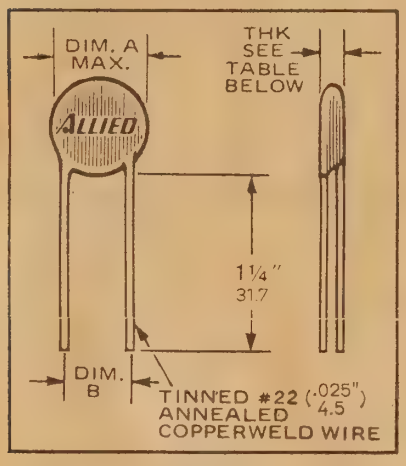
CERAMIC CAPACITORS

Allied® Ceramic Disc Capacitors

Tiny, tough and dependable in every application. Designed to the minimum size obtainable. Higher voltage ratings provide an extra reserve for resistance to surges and temporary overloads. Phenolic coating and high temperature wax impregnation assure superior moisture resistance and physical strength. Excellent in bypass and coupling applications in IF and RF circuits.

SPECIFICATIONS

Operating Temperature Range: −55°C to +125°C. **Dissipation Factor:** 2% maximum at 1 kHz. **Flash Test Voltage:** 1800 VDC for 1000 WVDC units. **Working Voltage:** 1000 WVDC except 15,000 pF and up, †600 WVDC. **Tolerance:** ±10% except as indicated by *±20%; 15,000 thru 50,000 pF, +80%, −20%. G in type number, Guaranteed Minimum Value.



SIZE CODE

Code	Dim. A.	Dim. B.	Thk
A	.290"	.250"	.156"
B	.385"	.250"	.156"
C	.590"	.375"	.156"
D	.690"	.375"	.156"
E	.900"	.375"	.156"
F	.875"	.375"	.250"

A	7.40mm	6.35mm	4.09mm
B	9.90mm	6.35mm	4.09mm
C	15.00mm	9.52mm	4.09mm
D	17.50mm	9.52mm	4.09mm
E	22.96mm	9.52mm	4.09mm
F	22.22mm	9.52mm	6.35mm

ALLIED CERAMIC DISC CAPACITORS

Stock No.	Allied Type	Capacitance pF	Size Code	Equivalent Types: Sprague 5GA —	Centralab DD —	Mallory GP —	EACH: 1-24	25-99	100-999	1000-Up
710R1000	CCD-050	5	A	V50	050	550	.15	.08	.05	.04
710R1001	CCD-100	10	A	Q10	100	410	.15	.08	.05	.04
710-1006	CCD-150	15	A	Q15	150	415	.15	.08	.05	.04
710-1008	CCD-180	18	A	Q18	180	418	.15	.08	.05	.04
710-1010	CCD-200	20	A	Q20	200	420	.15	.08	.05	.04
710-1012	CCD-220	22	A	Q22	220	422	.15	.08	.05	.04
710-1014	CCD-250	25	A	Q25	250	425	.15	.08	.05	.04
710-1016	CCD-270	27	A	Q27	270	427	.15	.08	.05	.04
710-1017	CCD-300	30	A	Q30	300	430	.15	.08	.05	.04
710-1018	CCD-330	33	A	Q33	330	433	.15	.08	.05	.04
710-1019	CCD-390	39	A	Q39	390	439	.15	.08	.05	.04
710-1020	CCD-470	47	A	Q47	470	447	.15	.08	.05	.04
710-1021	CCD-500	50	A	Q50	500	450	.15	.08	.05	.04
710-1022	CCD-560	56	A	Q56	560	456	.15	.08	.05	.04
710-1024	CCD-680	68	A	Q68	680	468	.15	.08	.05	.04
710-1026	CCD-820	82	A	Q82	820	482	.15	.08	.05	.04
710R1035	CCD-101	100	A	T10	101	310	.15	.08	.05	.04
710-1036	CCD-121	120	A	T12	121	312	.15	.08	.05	.04
710R1037	CCD-151	150	A	T15	151	315	.15	.08	.05	.04
710-1038	CCD-181	180	A	T18	181	318	.15	.08	.05	.04
710-1039	CCD-201	200	A	T20	201	320	.15	.08	.05	.04
710-1040	CCD-221	220	A	T22	221	322	.15	.08	.05	.04
710-1041	CCD-251	250	A	T25	251	325	.15	.08	.05	.04
710-1042	CCD-271	270	A	T27	271	327	.15	.08	.05	.04
710-1043	CCD-301	300	A	T30	301	330	.15	.08	.05	.04
710-1044	CCD-331	330	A	T33	331	333	.15	.08	.05	.04
710-1045	CCD-391	390	A	T39	391	339	.15	.08	.05	.04
710R1056	CCD-471	470	A	T47	471	347	.15	.08	.05	.04
710R1066	CCD-501	500	A	T50	501	350	.15	.08	.05	.04
710-1067	CCD-561	560	A	T56	561	356	.15	.08	.05	.04
710-1068	CCD-681	680	A	T68	681	368	.15	.08	.05	.04
710-1069	CCD-751	750	A	T75	751	375	.15	.08	.05	.04
710-1080	CCD-821	820*	A	T82	821	382	.15	.08	.05	.04
710R1090	CCD-102	1,000	B	D10	102	210	.17	.10	.06	.05
710R1092	CCD-152	1,500*	B	D15	152	215	.18	.11	.06	.05
710R1093	CCD-202G	2,000	B	D20	202	220	.16	.09	.06	.04
710-1094	CCD-222G	2,200	B	D22	222	222	.16	.09	.06	.04
710-1097	CCD-302G	3,000	B	D30	302	230	.18	.11	.06	.05
710-1099	CCD-392G	3,900	C	D39	392	239	.20	.12	.08	.06
710-1101	CCD-472	4,700*	C	D47	472	247	.20	.12	.08	.06
710R1102	CCD-502	5,000*	C	D50	502	250	.20	.12	.08	.06
710-1104	CCD-682G	6,800	C	D68	682	268	.20	.12	.08	.06
710R1116	CCD-103	10,000*	D	S10	103	110	.22	.15	.10	.08
710-1126	CCD-153	15,000†	D	S15	153	115	.21	.14	.09	.07
710R1136	CCD-203	20,000†	D	S20	203	120	.23	.16	.11	.08
710-1146	CCD-303	30,000†	E	...	303	130	.36	.25	.18	.14
710-1156	CCD-403	40,000†	E	S40	403	140	.18	.12	.10	.08
710R1166	CCD-503	50,000†	F	S50	503	150	.40	.27	.24	.19

UK MINIATURE DISC CAPACITORS

Dissipation factor at 1 kHz, 3-10%. Tolerance: 10 and 20 WVDC, −20% to +80. 12, 16, 25 and 50 WVDC tolerance is ±20%. Tinned wire leads #22 AWG. Wt. 1 oz.



Stock No.	Mfr's Type	µF	WV DC	Size, In. Max. Dia. x Spacing	EACH: 1-99	100-199	200-499	500-Up
748R6047	UK10-503	.05	10	.290x.250	.30	.17	.15	.13
748R6035	UK10-104	.1	10	.405x.250	.35	.19	.17	.15
748-6039	UK10-204	.2	10	.590x.375	.43	.23	.21	.18
748-6043	UK10-474	.47	10	.820x.375	.75	.42	.38	.32
748-6057	UK12-503	.05	12	.290x.250	.32	.17	.15	.13
748-6055	UK12-104	.1	12	.405x.250	.37	.20	.18	.16
748-6060	UK16-103	.01	16	.290x.250	.30	.17	.15	.13
748-6067	UK16-503	.05	16	.390x.250	.33	.18	.16	.14
748-6061	UK16-104	.1	16	.485x.375	.40	.23	.20	.18
748-6087	UK20-503	.05	20	.405x.250	.35	.18	.16	.14
748-6080	UK20-104	.1	20	.590x.375	.43	.23	.21	.18
748R6110	UK25-103	.01	25	.290x.250	.30	.17	.15	.13
748-6113	UK25-223	.022	25	.290x.250	.30	.17	.15	.13
748-6122	UK25-503	.05	25	.405x.250	.35	.20	.18	.16
748R6111	UK25-104	.1	25	.590x.375	.48	.26	.24	.20
748R6165	UK50-103	.01	50	.290x.250	.32	.17	.16	.14



LOW-VOLTAGE CERAMIC DISC CAPACITORS

Working voltage is 50 VDC to 150 VDC. Tolerance of type DDA is −30% to +80%. Tolerance of type CK is −20% to +80%. Tolerance of type DC is ±20%. Tolerance of type DDM is −40% to +60%. Dielectric strength is 250% of rated marking voltage. Operating Temp. Range: −55° to +85°C. All have Z5V characteristic +22% to −82% max. capacitance change from +25°C reading over temp. range of +10°C to +85°C. Wt. 2 oz.

Stock No.	Mfr's Type	µF	WV DC	Size, In. Max. Dia. x Max. Thick.	EACH: 1-99	100-199	200-499	500-Up
748-0385	CK-502	.005	50	.390x.156	.20	.11	.10	.08
748R0365	CK-103	.01	50	.390x.156	.22	.12	.11	.09
748-0373	CK-203	.02	50	.590x.156	.30	.17	.15	.13
748-0389	CK-503	.05	50	.690x.156	.43	.25	.23	.20
748R0369	CK-104	.1	50	.718x.171	.99	.55	.50	.42
748-0757	DDA-503	.05	75	.690x.156	.45	.25	.22	.19
748-0753	DDA-104	.1	75	.718x.156	1.04	.57	.50	.44
748-0430	DC-103	.01	100	.390x.156	.23	.12	.11	.10
748-0760	DDM-103	.01	150	.390x.156	.23	.13	.12	.10

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Disc & Mica Capacitors, Trimmers & Padders

MINIATURE DISC CERAMIC CAPACITORS



Type TCD. Low voltage miniature disc ceramic capacitors designed for low voltage transistor circuitry. Applications requiring high capacitance and low power factors for voltages from 3 to 50 volts can use these types. All units are coated with a rugged "Durez" coating and are available in both ±20%, +80%-20% tolerances. **Type TCP.** Miniature discs are ideally suited for all applications where size is a factor such as transistorized radios and industrial applications having critical space requirements and 100 WVDC design. Av. shpg. wt. 2 oz.

50 VOLT (150 VOLT TEST) ±20% TOLERANCE — Z5U CHARACTERISTIC

Stock No.	Mfr's Type	µF	Size (Dia. x Thk. x Lead Spacing) Inches	EACH 1-24	25-99	100-999	1000-Up
710-1410	TCD-223M	.022	.473 x .156 x .250	.21	.14	.07	.06
710-1420	TCD-473M	.047	.590 x .156 x .375	.32	.22	.11	.08
710-1425	TCD-503M	.050	.590 x .156 x .375	.32	.22	.11	.08

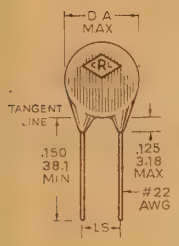
50 VOLT (150 VOLT TEST) +80-20% TOLERANCE — Z5V CHARACTERISTIC

710R1465	TCD-104Z	.100	.721 x .171 x .375	.48	.29	.17	.13

100 VOLT TOLERANCE +80-20%

710-1491	TCP-R01	.01	.395 x .156 x .250	.18	.10	.06	.04
710-1495	TCP-R05	.05	.75 x .156 x .375	.49	.29	.16	.13
710-1499	TCP-R1	.1	1.0 x .156 x .375	.72	.48	.26	.20

SERIES DD HIGH VOLTAGE DISC CERAMICS



Designed for noncritical coupling, by-pass and filter applications. Operating temp. range: −55° to +85°C. Tinned wire leads. Encapsulation: Phenolic coated, wax impregnated. Dielectric strength: 200% of rated working voltage. These high dielectric ceramic discs offer small size, tighter tolerances and a rugged humidity resistant coating. Wt. 2 oz.

Stock No.	Mfr's Type	pF	WV DC	% Tol	Size, In. DxTxSpac.	EACH 1-99	100-199	200-499	500-Up
748-0805	DD16-103	10,000	1600	GMV	.835×.172×.375	.58	.52	.48	.40
748-0865	DD30-101	100	3000	±20	.330×.203×.250	.48	.26	.24	.20
748-0867	DD30-102	1,000	3000	±20	.430×.203×.250	.52	.29	.27	.23
748-0912	DD30-502	5,000	3000	±20	.800×.203×.375	.84	.46	.42	.35
748-0977	DD60-501	500	6000	±20	.660×.313×.375	.84	.46	.42	.35
748-0944	DD60-102	1,000	6000	±20	.660×.313×.375	.84	.46	.42	.35
748-0955	DD60-202	2,000	6000	±20	.760×.313×.375	1.17	.65	.60	.50

• DIPPED MICA CAPACITORS



Operating temperature range: −55° to +125°C without derating. Tolerance: ±5% or 0.5 pF. 500 WVDC. Have 1¼" tinned brass wire leads, except DM/CD10 which has copperweld leads. All units meet 10-2000 cycle vibration tests. Av. shpg. wt. 2 oz. **Dual-marked with MIL and Commercial Type Numbers.**

Mfr's Type	MIL Type	Size (HxWxD) Inches	(mm)
DM/CD10	CM04	.360x.330x.190 to .390x.380x.220	9.14x8.38x4.82 to 9.90x9.65x5.58
DM/CD15	CM05	.450x.360x.170 to .470x.400x.220	11.43x9.14x4.31 to 11.93x10.16x5.58
DM/CD19	CM06	.640x.510x.200 to .700x.580x.350	16.25x12.95x5.08 to 17.78x14.73x8.89
DM/CD30	CM07	.780x.860x.280	19.91x21.84x7.11

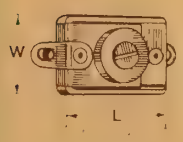
TYPES DM/CD 10, 15, 19, 30

Stock No.	Mfr's Type DM or CD	pF	EACH 1-24	25-99	100-499	500-up
782-0805	10CD050D03	5	.22	.19	.17	.14
782-0808	10CD100J03	10	.22	.19	.17	.14
782-0810	10CD120J03	12	.22	.19	.17	.14
782-0814	10CD180J03	18	.22	.19	.17	.14
782-0835	10ED220J03	22	.18	.16	.13	.11
782-0850	10ED270J03	27	.18	.16	.13	.11
782-0855	10ED330J03	33	.18	.16	.13	.11
782-0857	10ED390J03	39	.19	.17	.15	.13
782-0860	10ED470J03	47	.19	.17	.15	.13
782-0862	10ED510J03	51	.19	.17	.15	.13
782-0868	10ED680J03	68	.20	.18	.15	.13
782-0818	10ED101J03	100	.21	.19	.16	.13
782-0822	10ED121J03	120	.21	.19	.16	.13
782-0826	10ED151J03	150	.22	.19	.17	.14
782-0830	10ED181J03	180	.26	.21	.18	.15
782-0837	10ED221J03	220	.29	.26	.22	.18
782-0845	10ED251J03	250	.33	.29	.25	.21
782-0905	15CD050K03	5	.15	.14	.13	.12
782-0909	15CD100K03	10	.15	.14	.13	.12

Stock No.	Mfr's Type DM or CD	pF	EACH 1-24	25-99	100-499	500-Up
782-0923	15CD220J03	22	.14	.12	.11	.10
782-0928	15ED270J03	27	.14	.12	.11	.10
782-0930	15ED300J03	30	.14	.12	.11	.10
782-0932	15ED330J03	33	.14	.12	.11	.10
782-0938	15ED470J03	47	.14	.12	.11	.10
782-0940	15ED500J03	50	.14	.12	.11	.10
782-0944	15ED560J03	56	.14	.12	.11	.10
782-0946	15ED620J03	62	.14	.12	.11	.10
782-0948	15ED680J03	68	.14	.12	.11	.10
782-0951	15ED750J03	75	.14	.12	.11	.10
782-0953	15ED820J03	82	.14	.12	.11	.10
782-0956	15ED101J03	100	.14	.12	.11	.10
782-0960	15FD121J03	120	.16	.12	.11	.10
782-0964	15FD151J03	150	.17	.13	.12	.11
782-0973	15FD201J03	200	.19	.13	.12	.11
782-0976	15FD221J03	220	.20	.16	.13	.11
782-0982	15FD271J03	270	.22	.15	.14	.13
782-0985	15FD301J03	300	.24	.16	.15	.14
782-0988	15FD331J03	330	.26	.18	.16	.15

Stock No.	Mfr's Type DM or CD	pF	EACH 1-24	25-99	100-499	500-Up
782-0994	15FD391J03	390	.29	.19	.17	.16
782-0997	15FD501J03	500	.34	.21	.19	.18
782-0999	15FD511J03	510	.35	.22	.20	.19
782-1134	19FD471J03	470	.38	.25	.20	.18
782-1142	19FD621J03	620	.43	.27	.25	.21
782-1144	19FD681J03	680	.43	.27	.25	.21
782-1148	19FD821J03	820	.50	.31	.28	.24
782-1105	19FD102J03	1000	.50	.31	.28	.24
782-1109	19FD122J03	1200	.60	.38	.35	.29
782-1111	19FD152J03	1500	.75	.46	.41	.35
782-1115	19FD202J03	2000	.85	.53	.48	.41
782-1117	19FD222J03	2200	.93	.59	.53	.45
782-1121	19FD272J03	2700	1.10	.68	.61	.52
782-1123	19FD302J03	3000	1.18	.74	.68	.57
782-1127	19FD392J03	3900	1.43	.91	.82	.70
782-1132	19FD432J03	4300	1.55	1.00	.90	.77
782-1150	30FD512J03	5100	1.50	1.25	.89	.69
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TRIMMERS, PADDERS



TRIMMER



PADDER

Wide selection of trimmers and padders for new equipment and replacement purposes. Ceramic base. Clear India mica dielectric. High resistance to humidity. Resilient phosphor bronze adjusting plates. Trimmers are rated 35 VDC test or 175 WVDC. Padders are rated 500 VDC test or 250 WVDC. Three turns from open to tight setting. Shpg. wt. 2 oz.

TYPE 40 MIDGET TRIMMERS 3/8"x9/16", (9.52x14.28mm)

Stock No.	Mfr's Type	pF Min.-Max.	EACH 1-24	25-99	100-Up
782R0402	402	1.5-20	.90	.72	.60
782R0403	403	4-40	1.13	.90	.78
782-0404	404	7-60	1.40	1.08	.90

TYPE 42 MIDGET TRIMMERS 3/8"x3/4", (9.52x19.05mm)

Stock No.	Mfr's Type	pF Min.-Max.	EACH 1-24	25-99	100-Up
782-3760	420	1-12	.98	.80	.66
782-3761	421	2-25	.90	.72	.60
782-3762	422	4-40	.90	.72	.60
782-3763	423	7-100	1.10	.86	.72
782-3764	424	16-150	1.33	1.07	.89
782-3765	425	24-200	1.50	1.17	1.00

TYPE 30 PADDERS 7/8"x15/16", (22.22x23.81mm)

Stock No.	Mfr's Type	pF Min.-Max.	EACH 1-24	25-99	100-Up
782-0302	302	15-130	2.28	1.89	1.50
782-0303	303	65-340	2.80	2.45	1.83
782-0304	304	115-550	2.80	2.45	1.83
782-0305	305	190-760	3.10	2.71	2.01
782-0306	306	275-970	3.10	2.71	2.01

TYPE 46 STANDARD TRIMMERS 3/4"x5/8", (19.05x15.87mm)

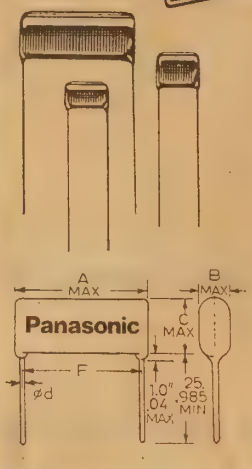
Stock No.	Mfr's Type	pF Min.-Max.	EACH 1-24	25-99	100-Up
782-3786	461	2.7-40	.91	.78	.48
782-3787	462	5-80	.91	.78	.48
782-3788	463	9-180	1.09	.98	.56
782-3789	464	25-280	1.24	1.06	.64

See Page 2 for the Allied Electronics Facility Nearest You

Mylar and Polyester Capacitors

TYPE ECQ-E METALLIZED POLYESTER CAPACITOR

NEW!



LEAD SPACING AND LEAD DIAMETER

Dimensions: mm(inch)

If Body Lgth. A	12.5 (.492)	17.5 (.689)	23.0 (.905)	30.0 (1.180)
Lead Space F	10.0 (.394)	15.0 (.592)	20.0 (.788)	27.5 (1.083)
Lead Dia. ød	6 (.024)	8 (.032)	8 (.032)	8 (.032)

- Non-Inductive Construction
- Non-Combustible, Epoxy Coated
- Capacitance Tolerance ±10%
- Operating Temperature −40°C to +85°C
- 250VDC Rated
- 150VAC at 60 Hz
- General Purpose

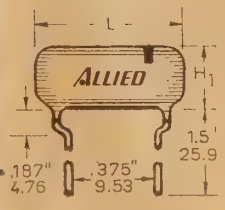
These general-purpose metallized polyester capacitors are rated 250VDC and 150VAC at 60 Hz. Capacitance tolerance is ±10%. Operating temperature: −40°C to +85°C. Non-inductive construction. Non-combustible and epoxy coated. Insulation resistance: less than 0.33 μF ≥ 30,000 MΩ, more than 0.33 μF ≥ 10,000 MΩxμF. Dissipation factor: ≤1% at 1 KHz. Stress voltage test: rated voltage x 1.5 for one minute.

Stock No.	Type ECQ-E	μF	Dimensions: mm(inch) A	B	C	EACH 1-99	100-999	1000-4999	5000-Up
881-2101	2103KZS	0.01	12.5(.492)	5.0(.197)	9.0(.354)	.12	.10	.07	.057
881-2102	2153KZS	0.015	12.5(.492)	5.0(.197)	9.0(.354)	.12	.10	.07	.057
881-2103	2223KZS	0.022	12.5(.492)	5.0(.197)	9.0(.354)	.12	.10	.07	.057
881-2104	2333KZS	0.033	12.5(.492)	5.0(.197)	9.0(.354)	.12	.10	.07	.057
881-2105	2473KZS	0.047	12.5(.492)	5.0(.197)	9.0(.354)	.13	.10	.07	.057
881-2106	2104KZS	0.10	12.5(.492)	6.0(.236)	11.0(.433)	.14	.12	.088	.072
881-2107	2224KZS	0.22	17.5(.689)	7.0(.276)	12.0(.472)	.20	.16	.128	.105
881-2108	2334KZS	0.33	23.0(.905)	6.5(.256)	11.5(.453)	.23	.19	.16	.14
881-2109	2474KZS	0.47	23.0(.905)	7.5(.295)	12.5(.492)	.27	.21	.19	.16
881-2110	2684KZS	0.68	23.0(.905)	9.5(.374)	14.5(.570)	.32	.26	.22	.20
881-2111	2105KZS	1.0	30.0(1.180)	9.5(.374)	14.0(.551)	.39	.32	.30	.26
881-2112	2155KZS	1.5	30.0(1.180)	10.5(.413)	18.0(.709)	.53	.42	.38	.32
881-2113	2225KZS	2.2	30.0(1.180)	12.5(.492)	20.5(.807)	.64	.52	.50	.44

TYPE IMDF MYLAR RECTANGULAR



Wound from polyester film and thin gage foil under controlled atmospheric conditions. Protected against moisture by a wax-free conformal coating of epoxy. Wax dripping at elevated temperatures is completely eliminated. Specifically furnished with radial leads to facilitate insertion on boards. Tolerance, ±10%. For operation from −55° to +105°C. Length .70″xWidth .40″xHeight .35″ except *.55″; †.80x.46x.70″. Shpg. wt. 2 oz.



Stock No.	Type IMDF	μF	WV DC	EACH 1-24	25-49	50-99	100 Up
782-6918	1-102	.001	100	.29	.25	.22	.16
782-6938	1-222	.0022	100	.29	.25	.22	.16
782-6963	1-472	.0047	100	.29	.25	.22	.16
782R6921	1-103	.01	100	.29	.25	.22	.16
782-6931	1-153	.015	100	.29	.25	.22	.16
782-6944	1-223	.022	100	.31	.27	.23	.18
782-6957	1-333	.033	100	.31	.27	.23	.18
782R6966	1-473	.047	100	.33	.29	.25	.18
782-6972	1-563	.056	100	.36	.33	.27	.20
782R6924	1-104	.1*	100	.35	.30	.28	.21
782-6914	4-224	.22†	100	.53	.42	.36	.26

ALLIED ZD METALLIZED "MYLAR" CAPACITORS



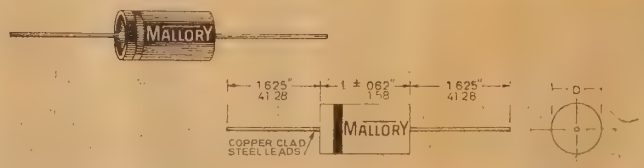
These capacitors are of the oval wrap and fill type, made of a metallized mylar dielectric which is self healing. All of these capacitors are rated at 200 WVDC. Tolerance: ±10%. Temperature Range: −55°C to +125°C. Derate linearly from 85°C to 50% at +125°C.

Stock No.	Type ZD-	MF	Maximum Size (DxWxL) Millimeters	Inches	EACH 1-24	25-49	50-99	100-Up
968-3005	8514103k	.01	4.32x6.35x11.43	.17x.25x.45	1.10	.88	.74	.63
968-3010	8514223k	.022	4.32x6.35x14.73	.17x.25x.58	1.05	.84	.70	.60
968-3020	8514473k	.047	4.57x6.86x14.73	.18x.27x.58	.98	.78	.66	.56
968R3025	8514104k	.10	6.60x9.14x14.73	.26x.36x.58	.93	.74	.62	.53
968-3030	8514224k	.22	7.62x10.16x17.78	.30x.40x.70	.93	.74	.62	.53
968-3035	8514334k	.33	7.62x10.16x21.08	.30x.40x.83	.93	.74	.62	.53
968-3040	8514474k	.47	8.13x10.92x24.38	.32x.43x.96	.98	.78	.66	.56
968-3045	8514684k	.68	8.13x10.67x30.99	.32x.42x1.22	1.03	.82	.69	.59
968R3050	8514105k	1.0	9.91x12.70x30.99	.39x.50x1.22	1.18	.94	.79	.67
968-3055	8514155k	1.5	10.41x13.21x37.34	.41x.52x1.47	1.40	1.12	.94	.80
968-3060	8514205k	2.0	11.94x14.22x37.34	.47x.56x1.47	1.58	1.26	1.05	.90
968-3065	8514305k	3.0	13.46x16.26x43.94	.53x.64x1.73	2.03	1.62	1.36	1.15
968-3070	8514405k	4.0	15.49x18.54x43.94	.61x.73x1.73	2.48	1.98	1.65	1.41
968R3075	8514505k	5.0	17.53x20.07x43.94	.69x.79x1.73	3.03	2.42	2.02	1.72

Cross Reference: Allied/ZD; TRW/X663F.

TYPE EWF "MYLAR" TUBULAR CAPACITORS

Tubular capacitors have high insulation resistance and good moisture resistance. Encased in "Mylar" film, end-sealed with thermosetting epoxy. Temperature: −55°C to +125°C; full-rated voltage at 85°C. Tolerance at ±10%. First digit(s) of Type Number in chart below indicate Working Voltage Direct Current: **05** indicates 50 WVDC; **1** indicates 100 WVDC; **2** indicates 200 WVDC; **4** indicates 400 WVDC; **6** indicates 600 WVDC. Average shipping weight is 2 oz. When ordering, please specify Type Number.



Stock No.	Type EWF-	μF	Size, DxL In.	(mm)	EACH 1-24	25-49	50-99	100-Up
852R1412	05010	.1	1/4x13/16	6.35x20.6	.39	.30	.23	.20
852-1413	05022	.22	21/64x13/16	8.33x20.6	.43	.33	.25	.21
852-1414	05033	.33	13/32x13/16	10.3x20.6	.50	.38	.30	.25
852-1415	05050	.50	13/32x1 1/16	10.3x26.9	.63	.48	.37	.31
852-1410	0510	1.0	1/2x1 3/8	12.7x34.9	1.10	.84	.65	.55
852-1411	0520	2.0	37/64x1 5/8	14.6x41.2	2.00	1.38	1.07	.91
852-1429	1A210	.001	5/32x1/2	3.96x12.7	.35	.25	.19	.16
852-1430	1A215	.0015	5/32x1/2	3.96x12.7	.35	.25	.19	.16
852-1431	1A222	.0022	5/32x1/2	3.96x12.7	.35	.25	.19	.16
852-1432	1A233	.0033	5/32x1/2	3.96x12.7	.32	.25	.19	.16
852-1433	1A247	.0047	5/32x1/2	3.96x12.7	.32	.25	.19	.16
852-1442	1A250	.005	5/32x1/2	3.96x12.7	.35	.25	.19	.16
852-1434	1A268	.0068	11/64x1/2	4.36x12.7	.32	.25	.19	.16
852-1423	1A110	.01	13/64x1/2	5.15x12.7	.35	.25	.19	.16
852-1424	1A115	.015	15/64x1/2	5.95x12.7	.32	.24	.19	.16
852-1425	1A122	.022	17/64x5/8	6.74x15.8	.35	.25	.19	.16
852-1426	1A133	.033	19/64x5/8	7.54x15.8	.32	.24	.19	.16
852-1427	1A147	.047	17/64x3/4	6.74x19.0	.38	.25	.20	.17
852-1441	1A150	.050	17/64x3/4	6.74x19.0	.38	.25	.20	.17
852-1428	1A168	.068	9/32x3/4	7.14x19.0	.35	.27	.21	.17
852-1416	1A010	.1	19/64x7/8	7.54x22.2	.40	.27	.21	.18
852-1417	1A015	.15	31/64x7/8	12.3x22.2	.36	.27	.21	.18
852-1418	1A022	.22	25/64x1	9.92x25.4	.39	.29	.23	.19
852-1419	1A033	.33	27/64x1 1/4	10.7x31.7	.50	.35	.27	.23

Stock No.	Type EWF-	μF	Size, DxL In.	(mm)	EACH 1-24	25-49	50-99	100-Up
852-1420	1A047	.47	15/32x1 1/4	11.9x31.7	.60	.42	.33	.28
852-1456	1A050	.50	31/64x1 1/4	12.3x31.7	.63	.43	.34	.29
852-1457	1A068	.68	37/64x1 1/4	14.6x31.7	.78	.54	.42	.36
852-1421	1A10	1.0	5/8x1 1/2	15.8x38.1	1.00	.75	.59	.49
852-1458	1A20	2.0	61/64x1 3/4	24.2x44.4	1.80	1.24	.97	.82
852-1459	1A40	4.0	1 1/4x2 1/2	31.7x63.5	2.95	2.05	1.60	1.35
852-1440	2210	.001	5/32x1/2	3.96x12.7	.32	.25	.19	.16
852-1438	2110	.01	15/64x1/2	5.95x12.7	.32	.25	.19	.16
852-1439	2147	.047	21/64x3/4	8.33x19.0	.32	.25	.19	.16
852-1436	2010	.1	13/32x7/8	10.3x22.2	.43	.33	.25	.21
852-1437	2022	.22	1/2x1 1/8	12.7x28.5	.48	.36	.28	.24
852-1435	210	1.0	3/4x1 3/4	19.0x44.4	1.00	.76	.59	.46
852-1449	4147	.047	13/32x7/8	10.3x22.2	.40	.29	.22	.19
852-1445	4010	.1	13/32x7/8	10.3x25.4	.41	.31	.24	.20
852-1447	4047	.47	45/64x1 5/8	17.8x41.2	.95	.72	.56	.47
852-1448	4068	.68	11/64x1 3/4	4.36x44.4	1.16	.88	.69	.58
852-1443	410	1.0	7/8x2	22.2x50.8	1.50	1.05	.82	.69
852-1444	420	2.0	1 1/4x2 1/4	31.7x57.1	2.45	1.71	1.33	1.12
852-1454	6110	.01	19/64x2 3/4	7.54x69.8	.41	.31	.24	.20
852-1455	6147	.047	27/64x1	10.7x25.4	.41	.31	.24	.20
852-1451	6010	.1	33/64x1 3/8	13.0x34.9	.53	.41	.32	.27
852-1452	6022	.22	21/32x1 5/8	16.6x41.2	.64	.48	.38	.32
852-1453	6047	.47	55/64x2	21.8x50.8	1.40	1.06	.82	.69
852-1450	610	1.0	1 11/16x2 1/2	42.8x63.5	3.23	2.24	1.74	1.46

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Miniature Aluminum Electrolytic Capacitors

ELECTROLYTIC CAPACITORS

AXIAL AND RADIAL LEAD ELECTROLYTIC CAPACITORS

Type ECE-B



- **Top Quality Electrolytics at Low Prices**
- **Dependable Operation—Compact Size**
- **Offer Low Leakage Current and Long Shelf Life**

Compact electrolytic capacitors for original equipment or replacement use in all kinds of communications, data processing, high fidelity and test equipment. Operating temperature: −40° to +85°C. Tolerance: −10%, +50% for values over 4.7 μF; −10%, +75% for 4.7 μF or less. Load life: 1000 hours at +85°C. Shelf life: 1000 hours at +85°C.

Standard miniature aluminum electrolytic capacitors for commercial and entertainment use. Available in both axial and radial lead configurations, as listed below.

Type ECE-A



DC LEAKAGE CURRENT

After 5-minute application of DC working voltage at +25°C:

I = .02CV +3 (uA) maximum

where

I = DC leakage current in uA

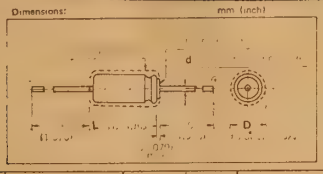
C = rated capacitance in uF

V = rated DC working voltage

TAN δ DISSIPATION FACTOR (at 120 Hz)

WVDC	Tanδ	Diss. Factor
6.3	0.25	25%
10	0.20	20%
16	0.17	17%
25	0.15	15%
35	0.13	13%
50	0.10	10%
100	0.08	8%

AXIAL LEAD ELECTROLYTIC CAPACITORS



LEAD DIAMETER

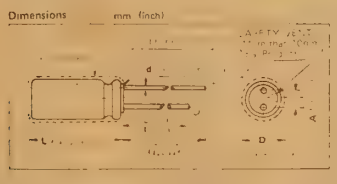
	Body Diameter D: mm (inch)							
	5 (.197)	6.3 (.248)	8 (.315)	10 (.394)	12.5 (.492)	16 (.630)	22 (.866)	25 (.984)
Lead Dia.: d: mm (inch)	0.6 (.024)	0.6 (.024)	0.6 (.024)	0.6 (.024)	0.8 (.032)	0.8 (.032)	0.8 (.032)	1.0 (.034)

Dependable welded construction with rubber end seal and vinyl sleeve. Axial leads, 35mm (1.378″) long minimum, of tinned steel copper wire; diameters from 0.6 to 1.0 mm as shown in table.

Stock No.	Mfr's Type	Cap. μF	WV DC	Dimensions: mm (inch) D	Dimensions: mm (inch) L	EACH 1-49	EACH 50-249	EACH 250-999	EACH 1000-Up
710-1193	ME6-B-200	200	6	10 (0.394)	21 (0.827)	.32	.25	.16	.13
881-1191	ECE-B6V47	47	6.3	6.3 (0.248)	12.5 (0.492)	.16	.13	.11	.08
881-1192	ECE-B6V100	100	6.3	6.3 (0.248)	16 (0.630)	.16	.13	.11	.08
623-1214	TD10M10	10	10	5 (0.197)	12.5 (0.492)	.22	.18	.15	.10
710-1216	ME4-D-100	100	12	10 (0.394)	21 (0.827)	.33	.25	.16	.13
710-1218	ME8-D-250	250	12	10 (0.394)	21 (0.827)	.39	.30	.19	.15
710-1231	ME2-E-025	25	15	6.3 (0.248)	15 (0.591)	.23	.18	.11	.09
710-1232	ME3-E-030	30	15	8 (0.315)	19 (0.748)	.24	.19	.12	.09
710-1235	ME6-E-200	200	15	10 (0.394)	21 (0.827)	.39	.30	.19	.15
623-1228	TD4.7M16	4.7	16	5 (0.197)	12.5 (0.492)	.22	.18	.14	.10
881-1198	ECE-B16V10	10	16	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1230	ECE-B16V22	22	16	6.3 (0.248)	12.5 (0.492)	.16	.13	.11	.08
881-1233	ECE-B16V47	47	16	6.3 (0.248)	16 (0.630)	.18	.15	.12	.09
881-1234	ECE-B16V100	100	16	8 (0.315)	16 (0.630)	.21	.17	.14	.11
881-0701	ECE-B16V470	470	16	10 (0.394)	31.5 (1.240)	.37	.30	.24	.19
881-0703	ECE-B16V1000	1000	16	16 (0.630)	31.5 (1.240)	.48	.39	.32	.24
623-0707	TD4700M16	4700	16	22 (0.866)	49 (1.969)	1.09	.99	.85	.62
623-1245	TD1M25	1	25	5 (0.197)	12.5 (0.492)	.21	.17	.14	.10
881-1246	ECE-B25V2R2	2.2	25	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1247	ECE-B25V3R3	3.3	25	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1248	ECE-B25V4R7	4.7	25	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
710-1249	ME2-G-006	6	25	5.3 (0.248)	15 (0.591)	.24	.19	.12	.09
710-1250	ME2-G-008	8	25	6.3 (0.248)	15 (0.591)	.26	.21	.13	.10
881-1251	ECE-B25V10	10	25	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
623-1252	TD15M25	15	25	6.3 (0.248)	12.5 (0.492)	.22	.18	.14	.10
881-1253	ECE-B25V22	22	25	6.3 (0.248)	12.5 (0.492)	.16	.13	.11	.08
710-1254	ME3-G-025	25	25	8 (0.315)	19 (0.748)	.28	.22	.14	.11
710-1255	ME3-G-030	30	25	8 (0.315)	19 (0.748)	.34	.26	.16	.13
881-1256	ECE-B25V33	33	25	6.3 (0.248)	16 (0.630)	.18	.15	.12	.09
881-1258	ECE-B25V47	47	25	8 (0.315)	16 (0.630)	.21	.17	.14	.11

Stock No.	Mfr's Type	Cap. μF	WV DC	Dimensions: mm (inch) D	Dimensions: mm (inch) L	EACH 1-49	EACH 50-249	EACH 250-999	EACH 1000-Up
881-1260	ECE-B25V100	100	25	10 (0.394)	20 (0.787)	.25	.20	.16	.12
881-1262	ECE-B25V220	220	25	10 (0.394)	25 (0.984)	.33	.27	.22	.17
881-1261	ECE-B25V330	330	25	10 (0.394)	31.5 (1.240)	.37	.30	.24	.19
881-1263	ECE-B25V470	470	25	12.5 (0.492)	31.5 (1.240)	.46	.37	.30	.23
623-0704	TD2200M25	2200	25	22 (0.866)	40 (1.575)	.99	.89	.71	.53
623-0711	TD100M35	100	35	10 (0.394)	20 (0.787)	.31	.25	.20	.15
881-0700	ECE-B35V330	330	35	12.5 (0.492)	31.5 (1.240)	.45	.36	.29	.22
623-0712	TD470M35	470	35	16 (0.630)	31.5 (1.240)	.62	.50	.40	.30
623-0713	TD1000M35	1000	35	22 (0.866)	40 (1.575)	.96	.77	.62	.47
623-0706	TD3300M35	3300	35	25 (0.984)	63 (2.480)	1.60	1.50	1.17	.83
623-0708	TD4700M35	4700	35	25 (0.984)	49 (1.969)	2.29	2.14	1.80	1.31
881-1270	ECE-B50V1	1	50	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1271	ECE-B50V2R2	2.2	50	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1274	ECE-B50V4R7	4.7	50	6.3 (0.248)	12.5 (0.492)	.16	.13	.11	.08
881-1277	ECE-B50V10	10	50	6.3 (0.248)	16 (0.630)	.18	.15	.12	.09
623-1278	TD15M50	15	50	8 (0.315)	16 (0.630)	.25	.20	.16	.12
881-1279	ECE-B50V22	22	50	8 (0.315)	16 (0.630)	.21	.17	.14	.11
710-1280	ME4-J-025	25	50	10 (0.394)	21 (0.827)	.37	.29	.18	.14
881-1282	ECE-B50V33	33	50	8 (0.315)	20 (0.787)	.24	.19	.15	.12
881-1284	ECE-B50V47	47	50	10 (0.394)	20 (0.787)	.27	.22	.17	.14
881-1286	ECE-B50V100	100	50	10 (0.394)	25 (0.984)	.33	.27	.22	.17
881-1288	ECE-B50V220	220	50	12.5 (0.492)	31.5 (1.240)	.48	.39	.32	.24
881-1290	ECE-B50V330	330	50	16 (0.630)	31.5 (1.240)	.60	.48	.39	.30
881-0702	ECE-B50V470	470	50	16 (0.630)	40 (1.575)	.73	.59	.48	.37
623-0705	TD2200M50	2200	50	25 (0.984)	63 (2.480)	1.59	1.49	1.25	.92
881-1294	ECE-B100V1	1	100	5 (0.197)	12.5 (0.492)	.13	.11	.09	.07
881-1296	ECE-B100V4R7	4.7	100	6.3 (0.248)	16 (0.630)	.21	.17	.14	.11
881-1297	ECE-B100V10	10	100	8 (0.315)	20 (0.787)	.25	.20	.16	.12
881-1299	ECE-B100V47	47	100	10 (0.394)	31.5 (1.240)	.40	.32	.26	.20
710-1310	ME3-N-001	1	150	8 (0.315)	19 (0.748)	.35	.28	.17	.14

RADIAL LEAD ELECTROLYTIC CAPACITORS



LEAD SPACING AND LEAD DIAMETER

	Body Diameter D: mm (inch)								
	5 (.197)	6.3 (.248)	8 (.315)	10 (.394)	12.5 (.492)	16 (.630)	18 (.709)	22 (.882)	25 (.984)
Lead Dia. d:mm (inch)	0.5 (.020)	0.6 (.024)	0.6 (.024)	0.6 (.024)	0.6 (.024)	0.8 (.032)	0.8 (.032)	1.0 (.039)	1.0 (.039)
Lead Spacing A: mm (inch)	2 (.079)	2.5 (.098)	3.5 (.138)	5 (.197)	5 (.197)	7.5 (.295)	7.5 (.295)	7.5 (.295)	7.5 (.299)

Welded construction with rubber end seal and vinyl sleeve. Capacitors over 10mm diameter have safety vent. Tinned steel copper wire radial leads, 20mm (0.787″) and 30mm (1.181″) long minimum.

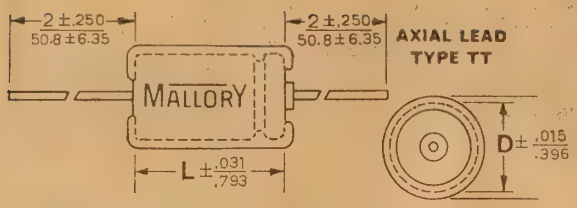
Stock No.	Mfr's Type	Cap. μF	WV DC	Dimensions: mm (inch) D	Dimensions: mm (inch) L	EACH 1-49	EACH 50-249	EACH 250-999	EACH 1000-Up
710-1327	RMEA-D-010	10	10	5 (0.197)	11 (0.433)	.14	.12	.09	.07
881-1329	ECE-A10V47	47	10	6.3 (0.248)	11 (0.433)	.11	.09	.07	.05
881-1336	ECE-A16V47	47	16	8 (0.315)	11 (0.433)	.12	.10	.08	.06
881-1330	ECE-A16V100	100	16	10 (0.394)	12.5 (0.492)	.17	.14	.11	.08
710-1338	RMEJ-E-250	250	16	12.5 (0.492)	24.5 (0.965)	.26	.23	.17	.13
881-1339	ECE-A16V470	470	16	12.5 (0.492)	21 (0.827)	.28	.23	.19	.14
881-1340	ECE-A16V1000	1000	16	16 (0.630)	26 (1.024)	.36	.29	.24	.18
623-1310	PD2200M16	2200	16	18 (0.709)	35.3 (1.398)	.89	.79	.65	.48
623-1311	PD3300M16	3300	16	22 (0.882)	40 (1.575)	1.35	1.10	.85	.65
623-1312	PD4700M16	4700	16	22 (0.882)	49 (1.969)	1.65	1.32	1.00	.83
881-1352	ECE-A25V10	10	25	6.3 (0.248)	11 (0.433)	.10	.08	.07	.05
710-1353	RMED-G-025	25	25	8 (0.315)	11.5 (0.453)	.14	.12	.09	.07
881-1355	ECE-A25V100	100	25	10 (0.394)	16 (0.630)	.16	.13	.11	.08
710-1356	RMEK-G-250	250	25	12.5 (0.492)	24.5 (0.865)	.40	.35	.25	.20

Stock No.	Mfr's Type	Cap. μF	WV DC	Dimensions: mm (inch) D	Dimensions: mm (inch) L	EACH 1-49	EACH 50-249	EACH 250-999	EACH 1000-Up
881-1357	ECE-A25V470	470	25	16 (0.630)	26 (1.024)	.36	.29	.24	.18
623-1313	PD4.7M35	4.7	35	5 (0.197)	12.5 (0.492)	.14	.12	.09	.07
623-1314	PD10M35	10	35	8 (0.315)	12.5 (0.492)	.16	.13	.10	.07
623-1315	PD22M35	22	35	8 (0.315)	12.5 (0.492)	.19	.16	.13	.09
881-1354	ECE-A35V47	47	35	10 (0.394)	12.5 (0.492)	.16	.13	.11	.08
881-1374	ECE-A35V100	100	35	10 (0.394)	21 (0.827)	.17	.14	.11	.08
710-1375	RMEL-H-250	250	35	16 (0.630)	35 (1.378)	.47	.40	.29	.23
881-1360	ECE-A35V1000	1000	35	18 (0.709)	33 (1.299)	.66	.53	.43	.33
881-1350	ECE-A50V1	1	50	5 (0.197)	11 (0.433)	.10	.08	.07	.05
623-1316	PD2.2M50	2.2	50	5 (0.197)	12.5 (0.492)	.14	.12	.09	.07
623-1317	PD3.3M50	3.3	50	5 (0.197)	12.5 (0.492)	.16	.13	.10	.07
623-1318	PD4.7M50	4.7	50	6.3 (0.248)	12.5 (0.492)	.17	.14	.11	.08
623-1319	PD10M50	10	50	8 (0.315)	12.5 (0.492)	.19	.16	.13	.09

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Aluminum Electrolytic Capacitors





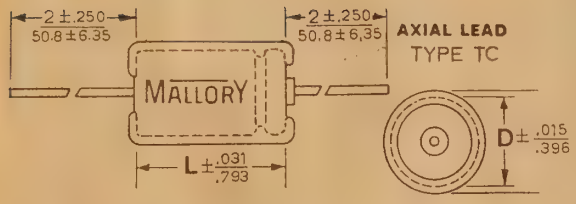
TT TINY TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS

TT capacitors are made from very high purity aluminum foil, deep-etched to provide maximum capacity per unit of volume. Etched cathode construction assures long, hum-free operation. Utilizes all-welded construction; exhibits exceptionally low DCL and ESR. Supplied in aluminum case with insulating sleeve; wire leads 2" lg. (±¼"). **Temperature Range:** —55°C to +85°C. **Tolerance:** —10%, +75%, 1-100 WVDC; —10%, +50%, 100 WVDC and up. Request bulletin 4-104 for technical data.

Stock No.	Mfr's Type TT	Cap. µF	WV DC	Size, In Dia.xLgth.	EACH 1-24	25-49	50-99	100-Up
852-4534	6X1000B	1000	6	7/16x1 1/16	1.50	1.24	1.00	.74
852-4547	10X100A	100	10	5/16x5/8	.85	.71	.57	.43
852-4548	10X200A	200	10	3/8x3/4	1.23	1.02	.82	.60
852-4549	10X300	300	10	3/8x7/8	1.28	1.05	.85	.63
852-4551	10X500	500	10	3/8x1	1.28	1.05	.85	.63
852-4566	12X2000A	2000	12	5/8x1 3/8	1.55	1.27	1.03	.75
852-4570	15X1	1	15	1/4x5/8	.73	.60	.48	.35
852-4574	15X10	10	15	1/4x5/8	.73	.60	.48	.35
852-4577	15X25A	25	15	1/4x5/8	.73	.60	.48	.35
852-4580	15X50A.	50	15	1/4x5/8	.73	.60	.48	.35
852-4582	15X100B	100	15	5/16x1 1/16	.90	.75	.60	.45
852-4584	15X150B	150	15	3/8x3/4	1.03	.75	.60	.48
852-4586	15X200A	200	15	3/8x3/4	.98	.82	.65	.49
852-4587	15X350B	350	15	3/8x1 3/8	1.18	.85	.68	.55
852-4589	15X500	500	15	3/8x1 3/8	1.35	1.11	.90	.66
852-4592	15X1000B	1000	15	1/2x1 3/8	1.40	1.16	.93	.69
852-4593	15X1500A	1500	15	5/8x1 1/8	1.68	1.40	1.12	.83
852-4594	25X1	1	25	1/4x5/8	.73	.60	.48	.35
852-4595	25X2	2	25	1/4x5/8	.73	.60	.48	.35
852-4596	25X5	5	25	1/4x5/8	.73	.60	.48	.35
852-4597	25X10	10	25	1/4x5/8	.73	.60	.48	.35
852-4598	25X15A	15	25	1/4x3/4	.73	.60	.48	.35
852-4599	25X20A	20	25	1/4x3/4	.83	.67	.55	.40
852-4664	25X25B	25	25	1/4x5/8	.83	.67	.55	.40
852-4616	25X50A	50	25	5/16x1 1/16	.85	.71	.57	.42
852-4607	25X75A	75	25	3/8x3/4	.90	.71	.57	.42
852-4618	25X100B	100	25	3/8x3/4	.90	.75	.60	.45
852-4609	25X150	150	25	3/8x1	.98	.82	.65	.49
852-4610	25X200	200	25	3/8x1 1/8	1.03	.85	.88	.51
852-4611	25X300	300	25	7/16x1 1/8	1.35	1.11	.90	.66
852-4612	25X400	400	25	7/16x1 3/8	1.35	1.11	.90	.66
852-4613	25X500	500	25	1/2x1 3/8	1.40	1.16	.93	.69
852-4615	25X800	800	25	1/2x1 1/4	1.40	1.16	.90	.69
852-4636	50X1	1	50	1/4x5/8	.73	.60	.48	.35
852-4667	50X2	2	50	1/4x5/8	.73	.60	.48	.35
852-4619	50X4	4	50	1/4x5/8	.73	.60	.48	.35
852-4660	50X5A	5	50	1/4x5/8	.73	.60	.48	.35
852-4622	50X8A	8	50	1/4x5/8	.73	.60	.48	.35
852-4663	50X10B	10	50	1/4x5/8	.83	.67	.55	.40
852-4624	50X15A'	15	50	5/16x5/8	.83	.67	.55	.40
852-4665	50X20B	20	50	5/16x5/8	.85	.71	.57	.43
852-4666	50X25A	25	50	5/16x1 1/16	.85	.71	.57	.43
852-4627	50X35A	35	50	3/8x3/4	.85	.71	.57	.43
852-4668	50X50B	50	50	3/8x3/4	.95	.78	.63	.46
852-4629	50X75	75	50	3/8x1	1.10	.80	.65	.52
852-4630	50X100A	100	50	3/8x1	1.05	.87	.70	.51
852-4631	50X150B	150	50	7/16x1 1/8	1.40	1.16	.93	.69
852-4632	50X200A	200	50	1/2x1 1/8	1.35	1.13	.90	.66
852-4633	50X250A	250	50	1/2x1 3/8	1.40	1.16	.93	.69
852-4634	50X300	300	50	7/16x2	1.78	1.47	1.18	.88
852-4637	50X450A	450	50	5/8x1 3/8	2.08	1.71	1.38	1.02
852-4640	100X1	1	100	1/4x5/8	.80	.65	.53	.38
852-4638	100X2	2	100	1/4x5/8	.80	.65	.53	.38
852-4639	100X5B	5	100	3/8x3/4	.95	.78	.63	.46
852-4641	100X10	10	100	3/8x3/4	.95	.78	.63	.48
852-4646	100X50	50	100	7/16x1 3/4	1.68	1.40	1.12	.83
852-4658	150X1	1	150	1/4x5/8	.80	.67	.53	.40
852-4649	150X2A	2	150	5/16x5/8	.80	.67	.53	.40
852-4650	150X4	4	150	3/8x5/8	.95	.78	.63	.46
852-4651	150X5B	5	150	3/8x3/4	.95	.78	.63	.46
852-4653	150X10	10	150	3/8x7/8	.98	.80	.65	.48
852-4655	150X20	20	150	1/2x1 3/8	1.13	.93	.75	.55
852-4656	150X25	25	150	7/16x1 3/8	1.50	1.24	1.00	.74

TYPES TC AND TCN TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS





TC and TCN are single section metal tubulars with plastic insulating sleeve except those with the symbol (*) which have cardboard sleeving. Capacitor sizes without symbol are for bare unsleeved cans. Add .015" to the diameter and .062" to the length to allow for plastic sleeving. TC and TCN have etched cathode construction. Type TC's have 2" tinned leads except (**) which have 3" leads. TCN's have 2" leads and are non-polar. Operating temperature: —20° to +85°C. Tolerance: —10% to +100% up to 350 WVDC; —10% to +50% for 351 WVDC and up.

TYPE TC (POLAR)

Stock No.	Mfr's Type TC	Cap. µF	WV DC	Size, In Dia.xLgth.	EACH 1-9	10-24	25-49	50-Up
854-9015	1520C	2000	15	5/8x1 3/8	2.58	2.32	1.75	1.41
854-9019	22A	10	25	1/4x5/8	1.03	.84	.60	.50
854-9020	26C	25	25	1/4x5/8	1.10	.84	.60	.74
854-9021	29C	50	25	5/16x1 1/16	1.15	.95	.66	.56
854-9022	2501B	100	25	3/8x3/4	1.43	1.12	.81	.68
854-9024	25025B	250	25	7/16x1	1.93	1.44	1.11	.93
854-9025	2505C	500	25	1/2x1 3/8	2.60	1.89	1.47	1.26
854-9026	2510B	1000	25	5/8x1 1/2	3.70	3.10	2.06	1.76
854-9027	2515B	1500	25	3/4x2 1/4	3.30	2.90	2.49	1.89
854-9028	1520A	2000	25	1x2 1/16	3.83	3.43	2.23	1.72
854-9023	2530	3000	25	3/4x2 3/4	3.98	3.78	2.37	1.87
854-9018	2550	5000	25	1x2 1/4	4.83	4.47	2.79	2.24
854-9029	31	1	50	1/4x5/8	.98	.76	.55	.46
854-9032	32C	10	50	1/4x5/8	1.03	.84	.60	.50
854-9033	36B	25	50	5/16x5/8	1.08	.80	.61	.53
854-9034	39B	50	50	3/8x3/4	1.20	1.01	.74	.59
854-9035	3501E	100	50	3/8x1	1.48	1.16	.85	.71
854-9037	50025C	250	50	1/2x1 3/8	1.58	1.41	1.10	.95
854-9038	50050C	500	50	3/4x1 3/8	2.45	1.97	1.50	1.17
854-9039	50100C	1000	50	7/8x2 3/8	3.58	2.67	1.98	1.70
854-9041	50150A	1500	50	1x2 1/4	4.78	3.44	2.66	2.28
854-9040	50200A	2800	50	1x2 1/4	5.38	3.89	2.99	2.56
854-9042	50300	3000	50	1x3 1/16	5.73	4.13	3.18	2.73
854-9043	50500A	5000	50	1 3/8x3 3/4	6.43	4.64	3.58	3.07
854-9046	75501A	500	75	7/8x2 1/4	3.10	2.90	1.86	1.50
854-9052	10101B	100	100	3/4x1 3/8	2.25	1.63	1.25	1.07
854-9055	10501A	500	100	1x2 3/8	3.10	2.89	1.86	1.50

TYPE TC (POLAR)

Stock No.	Mfr's Type TC	Cap. µF	WV DC	Size, In Dia.xLgth.	EACH 1-9	10-24	25-49	50-Up
854-9056	10102**	1000	100	1x3 3/8	7.20	5.20	4.00	3.42
854-9057	40B	5	150	3/4x7/8	1.35	1.09	.79	.65
854-9059	42B	10	150	3/4x1 1/8	1.43	1.18	.85	.68
854-9062	45A	20	150	3/4x1 3/8	1.50	1.31	.95	.72
854-9063	47A	30	150	5/8x1 1/8	2.08	1.49	1.14	.99
854-9064	48A	40	150	3/4x1 3/8	2.13	1.54	1.18	1.01
854-9065	49A	50	150	1x1 3/8	1.85	1.56	1.09	.88
854-9066	492A	80	150	7/8x1 1/8	2.10	1.73	1.23	1.01
854-9067	493B	100	150	3/4x1 3/8	2.20	1.93	1.39	1.05
854-9068	495B	150	150	1x1 3/8	2.48	2.08	1.48	1.18
854-9069	496B	200	150	7/8x2 1/4	2.78	2.42	1.70	1.35
854-9070	499A	300	150	1x2 1/4	3.65	2.99	2.22	1.75
854-9071	50XB	5	250	1/2x1 3/8	1.80	1.31	1.01	.86
854-9073	52A	10	250	5/8x1 1/8	1.68	1.31	1.02	.81
854-9076	55B	20	250	3/4x1 3/8	1.98	1.50	1.18	.95
854-9078	58A	40	250	3/4x1 3/8	2.13	1.72	1.26	1.02
854-9079	59B	50	250	3/4x1 3/8	2.28	2.87	1.35	1.11
854-9080	1265B	100	250	7/8x2 1/8	2.95	2.69	1.76	1.42
854-9048	1267**	225	250	1x3 1/4	4.55	3.29	2.53	2.16
854-9083	595A	2	350	1/2x1 1/8	1.80	1.31	1.01	.86
854-9086	62B	10	350	5/8x1 3/8	1.78	1.39	1.08	.86
854-9189	65B	20	350	3/4x1 3/8	2.05	1.59	1.19	.98
854-9181	68B**	60	350	7/8x2 1/8	2.55	2.14	1.59	1.23
854-9186	69B	100	350	1x2 1/8	3.13	3.34	2.01	1.50
854-9183	692A**	150	350	1x3 3/8	4.33	4.07	2.66	2.09
854-9088	695B	2	450	5/8x1 1/8	1.95	1.40	1.08	.92
854-9095	697B	4	450	7/8x1 1/8	2.03	1.26	.96	.76

TYPE TC (POLAR)

Stock No.	Mfr's Type TC	Cap. µF	WV DC	Size, In Dia.xLgth.	EACH 1-9	10-24	25-49	50-Up
854-9096	70B	5	450	3/4x1 1/8	2.05	1.47	1.13	.98
854-9097	71C	8	450	3/4x1 1/8	2.13	1.54	1.19	1.13
854-9089	72B	10	450	7/8x1 3/8	2.23	1.61	1.23	1.06
854-9100	74B	16	450	3/4x1 3/8	2.03	1.53	1.18	.98
854-9101	75A	20	450	7/8x1 3/8	2.20	1.70	1.28	1.07
854-9090	77B	30	450	1x2 1/8	2.45	1.87	1.45	1.18
854-9103	78A	40	450	1x2 1/8	2.53	1.97	1.53	1.22
854-9091	79B**	50	450	1x2 1/8	2.90	2.30	1.70	1.39
854-9092	795A**	60	450	1x2 5/8	3.50	2.57	1.94	1.68
854-9093	80B**	80	450	1x3 1/8	4.25	3.10	2.34	2.03
854-9094	805A**	100	450	1 3/8x2 13/16	4.25	3.34	2.45	2.04
854-9098	807**	100	450	1x3 3/8	4.25	3.34	2.45	2.04
854-9108	808**	160	450	1 3/8x3 3/8	7.20	5.20	4.02	3.42
854-9116	96A**	20	600	1 1/16x3	5.20	4.31	3.23	2.50

TYPE TCN (NON-POLAR)

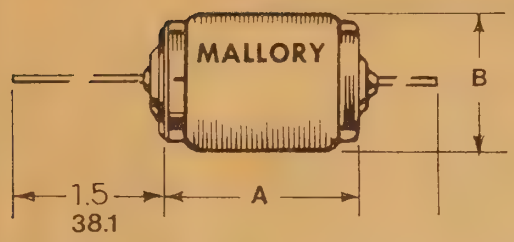
Stock No.	Mfr's Type TC	Cap. µF	WV DC	Size, In Dia.xLgth.	EACH 1-9	10-24	25-49	50-Up
854-9126	N501A	1	50	1/4x5/8	1.35	1.16	.83	.65
854-9127	N502A	2	50	1/4x5/8	1.35	1.16	.83	.65
854-9128	N503A	3	50	1/4x5/8	1.43	1.19	.87	.69
854-9129	N504A	4	50	3/8x5/8	1.43	1.19	.87	.69
854-9130	N505A	5	50	1/4x1 1/16	1.43	1.19	.87	.69
854-9131	N5010A	10	50	5/16x3/4	1.48	1.23	.90	.70
854-9133	N510	*4	150	5/16x1 1/4	2.40	1.71	1.33	1.13

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Tantalum and Polystyrene Capacitors

POLY-STYRENE CAPACITORS

POLYSTYRENE CAPACITORS • SX 630VDC • SXL 63VDC • SXM 160VDC



Capacitors are stretched polystyrene dielectric fused to high-purity aluminum foil—produces excellent humidity barrier. Excellent where utmost capacitance stability versus temp. and time are required, due to high insulation resistance and power factor of less than .05%. Capacitance change from −10°C to +70°C is less than 1.3% total and is negative. Temp. coefficient, −150 ppm/°C, ±50 ppm/°C. Tolerance: SX Types ±5%, SXL and SXM Types ±2.5%. Temp. ranges −40°C to +85°C. Cleaning solvents: alcohol is best, freon will discolor only. Warning: chlorinated solvents will attack polystyrene. ***For prices and sizes on all types use price locator right. Shpg. wt. 1 oz.**

Stock No.	Type SX	Cap. pF	*	Stock No.	Type SX	Cap. pF	*	Stock No.	Type SX	Cap. pF	*
852-0005	550	5	A	852-0042	347	470	A				
852-0006	410	10	A	852-0043	351	510	A	852-0063	233	3300	C
852-0010	420	20	A	852-0044	356	560	A	852-0065	239	3900	C
852-0011	422	22	A	852-0045	362	620	A	852-0067	247	4700	C
852-0014	430	30	A	852-0046	368	680	A	852-0068	250	5000	C
852-0015	433	33	A	852-0047	375	750	A	852-0070	256	5600	D
852-0019	447	47	A	852-0048	382	820	A	852-0072	268	6800	D
852-0020	456	56	A	852-0050	210	1000	A	852-0074	282	8200	D
852-0026	310	100	A	852-0052	212	1200	B	852-0076	110	10k	D
852-0030	315	150	A	852-0053	213	1300	B	Stock No.	Type SXL	Cap. pF	*
852-0033	320	200	A	852-0054	215	1500	B	852-0079	115	15k	D
852-0034	322	220	A	852-0056	218	1800	B	852-0082	122	22k	E
852-0036	327	270	A	852-0057	220	2000	B	852-0083	124	24k	E
852-0037	330	300	A	852-0058	222	2200	B	852-0085	118	18k	F
852-0038	333	330	A	852-0061	227	2700	B				
852-0040	339	390	A	852-0062	230	3000	B				

Stock No.	Type SXL	Cap. pF	*
852-0088	139	39k	E

Stock No.	Type SXM	Cap. pF	*
852-0110	110	10k	C
852-0112	115	15k	G
852-0114	122	22k	E
852-0135	215	1500	H
852-0138	218	1800	H
852-0140	230	3000	H
852-0143	233	3300	B
852-0147	247	4700	B
852-0156	256	5600	D
852-0182	282	8200	D

***PRICE LOCATOR**

Price Code	1-24	25-99	100-249	250-Up
A	.24	.17	.14	.12
B	.27	.20	.17	.15
C	.31	.23	.19	.17
D	.35	.25	.21	.18
E	.58	.39	.32	.28
F	.45	.30	.25	.22
G	.40	.27	.22	.19
H	.28	.18	.15	.13

SX SIZE CHART

Cap. pF	Nom. Lgth "A" In.	Nom. Lgth "A" (mm)	Dia. "B" In.	Dia. "B" (mm)
20-470	.473	12.0	.173 to .248	4.39 to 6.29
510-3k	.670	17.0	.214 to .366	5.43 to 9.29
3.3k-10k	.867	22.0	.378 to .555	9.60 to 14.0

SXL SIZE CHART

Cap. pF	Nom. Lgth "A" In.	Nom. Lgth "A" (mm)	Dia. "B" In.	Dia. "B" (mm)
11k-24k	.867	22.0	.303 to .388	7.69 to 9.85
33k-39k	.886	22.5	.484	12.29
56k-82k	1.3	33.0	.451 to .528	11.4 to 13.4

SXM SIZE CHART

Cap. pF	Nom. Lgth "A" In.	Nom. Lgth "A" (mm)	Dia. "B" In.	Dia. "B" (mm)
5.1k-15k	.867	22.0	.310 to .452	7.87 to 11.4
1500-2k	.473	12.0	.268 to .285	6.80 to 7.23
2.2k-5k	.670	17.0	.228 to .340	5.79 to 8.63

8

TAC TYPE MOLDED SOLID TANTALUM CAPACITORS



• Highly Stable • Molded Epoxy Case • ±10% Tolerance

High-reliability axial-lead capacitors in precision-molded epoxy case. Uniform molded construction provides excellent performance in severe environments. Highly stable electrical characteristics, exceptionally long shelf life and excellent environmental protection. Temperature range: −55° to +85°C. Tolerance: ±10%. Av. shpg. wt. 1/10 oz.

Stock No.	Type TAC-	Cap. uF	WV DC	Price Code*
852-5431	685K010P02	6.8	10	3
852-5304	106K015P05	10	15	5
852-5303	105K020P02	1.0	20	3
852-5349	225K020P02	2.2	20	3
852-5323	395K025P05	3.9	25	5
852-5322	225K035P05	2.2	35	5

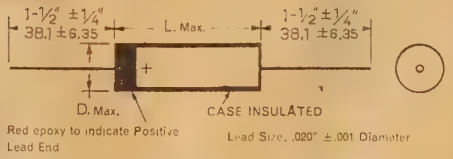
Stock No.	Type TAC-	Cap. uF	WV DC	Price Code*
852-5407	475K035P04	4.7	35	4
852-5302	104K050P02	.1	50	2
852-5345	224K050P02	.22	50	2
852-5400	474K050P02	.47	50	2
852-5305	105K050P03	1	50	3
852-5315	155K050P05	1.5	50	5

TAC PRICE AND SIZE LOCATOR

Price & Size Code*	Tolerance	Size, Inches Dia.	Size, Inches Lgth.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
2	±10%	.105	.295	.99	.89	.67	.56
3	±10%	.137	.340	.96	.86	.65	.54
4	±10%	.137	.540	1.26	1.16	.87	.73
5	±10%	.187	.340	1.08	.96	.72	.60

TYPE MTP ULTRAMINIATURE TANTALUM CAPACITORS





This sintered tantalum anode polar capacitor offers higher capacity-voltage than ordinary wet slug, solid or foil tantalum capacitors. Meets or exceeds **MIL-STD-202** for higher freq. vibration, shock, temperature and immersion cycling, sleeving dielectric strength, moisture and insulation resistance. Silver case, closed on elastomer end seals. −55° to +85°C Operating Temp. ±20% Tolerance. The anode lead weld is protected by epoxy resin encapsulation, with outer insulating sleeve covering entire unit. Low profile geometry compatible with microelectronics. Long storage life.

Stock No.	Mfr's Type MTP-	Cap. µF	WVDC @ 85°C	Max. D.C.L. at Max. WVDC in µA +25°C	Max. D.C.L. at Max. WVDC in µA +85°C	Max. DF @ 25°C	Case Size Diameter x Length Inches	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
852-2785	477M086P1C	470	6	2.0	10.0	35	.225x.775	5.75	3.98	3.29	2.97
852-2713	107M010P1B	100	10	2.0	8.0	24	.145x.590	4.90	3.42	2.80	2.61
852-2765	337M010P1C	330	10	2.0	10.0	26	.225x.775	5.58	3.98	3.29	2.97
852-2744	226M015P1A	22	15	2.0	6.0	22	.115x.400	4.00	2.85	2.33	2.11
852-2749	227M015P1C	220	15	2.0	10.0	23	.225x.775	5.58	3.98	3.29	2.97
852-2735	157M020P1C	150	20	2.0	10.0	20	.225x.775	5.58	3.98	3.29	2.97
852-2771	127M030P1C	120	30	2.0	10	21	.225x.775	5.58	3.98	3.29	2.97
852-2775	475M035P1D	4.7	35	2.0	6.0	14	.115x.312	4.08	2.83	2.33	2.11
852-2708	106M035P1A	10	35	2.0	6.0	14	.115x.400	4.10	2.85	2.34	2.13
852-2716	107M035P1C	100	35	2.0	10.0	21	.225x.775	5.58	3.98	3.29	2.97
852-2747	226M060P1B	22	60	2.0	8.0	14	.145x.590	4.90	3.42	2.80	2.61

MIL TYPE CSR13 SOLID ELECTROLYTE TANTALUM CAPACITORS



PRICE AND SIZE LOCATOR

Case Code*	Dia. x Lgth. In.	Dia. x Lgth. (mm)	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-Up
A	.135x.286	3.42x7.26	1.40	1.17	.80	.65
A-1	.135x.286	3.42x7.26	2.98	1.60	1.10	.90
A-2	.135x.286	3.42x7.26	4.30	2.95	2.49	2.15
A-3	.135x.286	3.42x7.26	3.00	1.88	1.13	.93
B	.185x.474	4.69x12.0	3.20	2.20	1.83	1.58
B-2	.185x.474	4.69x12.0	1.45	1.37	.83	.69
B-3	.185x.474	4.69x12.0	3.00	1.88	1.13	.93
C-1	.289x.686	7.34x17.4	5.58	3.75	3.19	2.70
C-2	.289x.686	7.34x17.4	3.20	2.20	1.83	1.58
D	.351x.786	8.91x19.9	5.40	4.15	3.08	2.49
D-1	.351x.786	8.91x19.9	9.98	5.66	4.20	3.40

Subminiature hermetically sealed units meet **MIL-C-39003/1A** specifications. Life test: 10,000 hours. Tighter leakage current and dissipation factor over **MIL-C-26655B.** Low impedance above 1 MHz. 2000-cycle vibration test, 50g shock test. Temperature range. −55° to +125°C.

CSR13 SOLID ELECTROLYTE TANTALUM CAPACITORS

Stock No.	Type CSR13-	Cap., µF	WV DC	Max. Leak. µA	Case Code*
852-4311	C396KL	39	10	5.0	B-2
852-4313	C107KL	100	10	10.0	C-2
852-4315	C227KL	220	10	20.0	D
852-4166	C227KM	220	10	20.0	D-1
852-4317	D335KL	3.3	15	0.8	A
852-4319	D226KL	22	15	4.0	B-2
852-4323	D157KL	150	15	20.0	D
852-9998	E825KL	8.2	20	2.0	B-2
852-4180	E106KM	10	20	3.0	B-3
852-4331	E156KL	15	20	4.0	B-2
852-4335	E476KL	47	20	9.0	C-2
852-4189	E107KM	100	20	20.0	D-1
852-4382	F564KL	.56	35	0.6	A-1
852-4383	F824KL	.82	35	0.7	A-1
852-4343	F105KL	1.0	35	0.4	B-3
852-4380	F185KL	1.8	35	0.6	B-3
852-4191	F685KM	6.8	35	3.0	B-3
852-4345	F126KL	12	35	5.0	C-1
852-4351	F156KL	15	35	5.0	C-1
852-4342	F226KL	22	35	8.0	C-2
852-4344	F336KL	33	35	11.0	D
852-4211	G105KM	1.0	50	1.4	A-2
852-4354	G225KL	2.2	50	1.7	B
852-4384	H105KL	1.0	75	0.8	A-3

See Page 2 for the Allied Electronics Facility Nearest You

Tantalum Capacitors



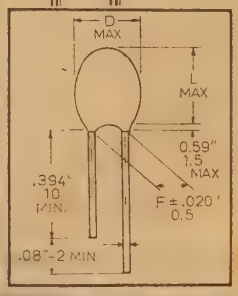
NEW!

SQ SERIES DIPPED SOLID TANTALUM ELECTROLYTIC CAPACITORS

These tantalum electrolytic capacitors are epoxy coated (nonflammable) and combine stability with long life. Specifications: Operating Temperature: −55°C to +85°C. Capacitance Tolerance: ±20%. Dissipation Factor: 6% max. Load Life: 2000 hours at +85°C. Shelf Life: 2000 hours at +85°C. Leakage Current: Through a 1K ohm resistor, I=0.008CV or 0.05μA whichever is the greater. (After two minutes). I=max. leakage current (μA), C=rated capacitance (μF), V=rated voltage (V).

ASK FOR PRICING ABOVE 10,000 PIECES

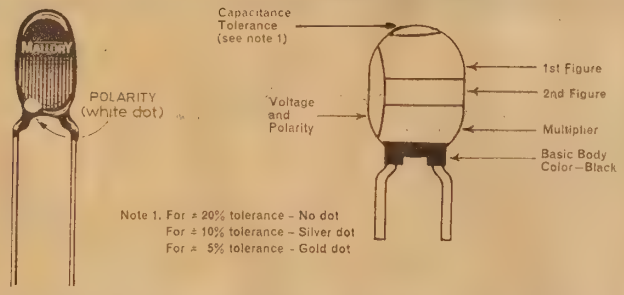
Stock No.	Type ECS-F	Cap. MF	WV DC	Surge VDC	Case Size Code	EACH 1-99	100-999	1K-4999	5000-9999
881-0655	10E4R7	4.7	10	13	B	.18	.14	.11	.10
881-0657	10E100	100	10	13	J	.91	.73	.55	.51
881-0640	16E22	22	16	20	G	.39	.32	.24	.22
881-0663	25E2R2	2.2	25	32	C	.19	.15	.12	.11
881-0630	25E6R8	6.8	25	32	F	.31	.25	.18	.17
881-0635	25E10	10	25	32	G	.35	.28	.21	.19
881-0671	25E22	22	25	32	H	.47	.37	.28	.26
881-0600	35ER1	.1	35	44	A	.15	.12	.09	.08
881-0601	35ER22	.22	35	44	A	.15	.12	.09	.08
881-0602	35ER33	.33	35	44	A	.15	.12	.09	.08
881-0603	35ER47	.47	35	44	A	.15	.12	.09	.08
881-0604	35ER68	.68	35	44	A	.15	.12	.09	.08
881-0610	35E1	1	35	44	B	.17	.14	.10	.09
881-0611	35E1R5	1.5	35	44	C	.19	.15	.11	.10
881-0614	35E2R2	2.2	35	44	D	.21	.17	.13	.12
881-0622	35E3R3	3.3	35	44	E	.25	.20	.15	.14
881-0624	35E4R7	4.7	35	44	F	.30	.24	.18	.17
881-0679	35E6R8	6.8	35	44	G	.34	.27	.21	.19
881-0685	50ER1	.1	50	63	A	.16	.13	.10	.09
881-0689	50ER47	.47	50	63	B	.16	.13	.10	.09
881-0691	50E1	1	50	63	D	.20	.16	.12	.11



DIMENSIONS

Case Size Code	D Max. mm(In.)	L Max. mm(In.)	F mm(In.)
A	4.0(.157)	7.0(.276)	2.5(.098)
B	4.5(.177)	7.5(.295)	2.5(.098)
C	4.5(.177)	8.0(.315)	2.5(.098)
D	5.0(.197)	8.0(.315)	3.0(.118)
E	5.0(.197)	8.5(.335)	3.0(.118)
F	5.5(.217)	9.0(.354)	3.0(.118)
G	6.0(.236)	10.0(.394)	3.5(.138)
H	8.0(.315)	11.5(.453)	5.0(.197)
J	8.0(.315)	12.5(.492)	5.0(.197)

TDC DIPPED SOLID TANTALUM CAPACITORS



DIMENSIONS

Case Size	Dimensions in Inches (Max.) Dia.	Ht.	Lead Dia. In Inches (±.002)	Lead Spacing (±.015)	Case Markings
E	.175	.350	.020 (#24AWG)	.250	Color Coded
F	.250	.500	.020 (#24AWG)	.250	
G	.350	.650	.025 (#22AWG)	.250	Stamped Capacity, Voltage & Tolerance
H	.400	.750	.025 (#22AWG)	.250	

TDC tantalums have a hard, dip coated epoxy coating and are supplied with tinned nickel radial leads. TDC's exhibit the same long shelf life and performance as other solid tantalum capacitors and are ideally suited for use in industrial, commercial and entertainment electronics.

- **Low Cost**
- **Radial Leads**
- **±20% Tolerance**
- **Space Saving**

TABLE A

CAPACITANCE AND VOLTAGE COLOR CODE

COLOR	+85 C Voltage	Cap. in Picofarads 1st Fig.	2nd Fig.	Multiplier
Black	4	0	0	—
Brown	6	1	1	—
Red	10	2	2	—
Orange	15	3	3	—
Yellow	20	4	4	$x10^4$
Green	25	5	5	$x10^5$
Blue	35	6	6	$x10^6$
Violet	50	7	7	$x10^7$
Gray	—	8	8	—
White	—	9	9	—

Stock No.	Mfr's Type	Cap. μF	WVDC @85°C	Case Size	EACH 1-24	25-49	50-99	100-Up
852-5655	TDC475M010EL	4 7	10	E	.74	.62	.49	.37
852-5656	TDC336M010FL	33	10	F	.97	.81	.64	.49
852-5657	TDC107M010GL	100	10	G	2.37	1.98	1.58	1.19
852-5660	TDC226M015FL	22	15	F	.97	.81	.64	.49
852-5663	TDC225M020EL	2.2	20	E	.74	.62	.49	.37
852-5664	TDC156M020FL	15	20	F	1.00	.84	.67	.50
852-5666	TDC476M020GL	47	20	G	2.73	2.28	1.82	1.37
852-5668	TDC107M020HL	100	20	H	3.90	3.25	2.60	1.95
852-5669	TDC685M025FL	6.8	25	F	.89	.74	.59	.44
852R5670	TDC106M025FL	10	25	F	.95	.80	.64	.48
852-5671	TDC226M025GL	22	25	G	1.80	1.50	1.20	.90
852R5674	TDC105M035EL	1	35	E	.75	.63	.50	.38
852-5676	TDC225M035FL	2 2	35	F	.84	.70	.56	.40
852-5678	TDC475M035FL	4.7	35	F	.95	.80	.64	.48
852-5679	TDC685M035FL	6.8	35	F	1.07	.90	.72	.54
852-5680	TDC106M035FL	10	35	F	1.25	1.05	.84	.63
852-5682	TDC226M035GL	22	35	G	2.58	2.15	1.72	1.29
852-5684	TDC476M035HL	47	35	H	4.44	3.70	2.96	2.22
852-5685	TDC104M050EL	10	50	E	.77	.65	.52	.39
852-5688	TDC334M050EL	.33	50	E	.80	.67	.54	.40
852-5689	TDC474M050EL	.47	50	E	.81	.68	.54	.41
852-5690	TDC684M050EL	68	50	E	.83	.70	.56	.42
852-5691	TDC105M050EL	1 0	50	E	.86	.72	.58	.43

TIM SERIES MOLDED SOLID TANTALUM CAPACITORS



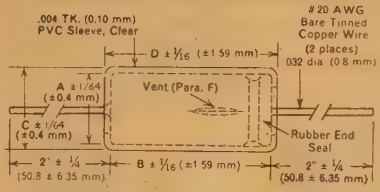
Ultra-miniature tantalum capacitors are fully molded in a rectangular epoxy case with tinned nickel radial leads, precisely positioned to provide easy mounting on printed circuit boards. High stability, long shelf life, excellent performance in severe environments. Electrical and environmental performance fits the needs of computer and industrial users. **Temperature Range:** −55°C to +85°C. **Tolerance:** ±10%. **Lead Spacing:** .200". "X" in mfr's type indicates case size X; "Y" in mfr's type indicates case size Y. Wt. 2 oz. (56.6gm).

- **−55°C to +85°C**
- **High Stability**
- **Ultra-Miniature**
- **Uniform Size**
- **Molded Epoxy Case**
- **±10% Tolerance**

Stock No.	Type TIM-	Cap. μF	WV DC	Tol.	Size, HxWxT In.	(mm)	EACH 1-9	10-24	25-49	50-Up
852-6409	105K035POX	1.0	35	±10%	.225x.285x.170	5.71x7.23x4.31	1.60	1.42	1.06	.89
852-6526	685K035POY	6.8	35	±10%	.335x.360x.170	8 50x9 14x4 31	1.90	1.68	1.26	1.05
852-6414	106K035POY	10	35	±10%	.335x.360x.170	8.50x9.14x4.31	2.00	1.78	1.33	1.11
852-6406	104K050POX	.1	50	±10%	.225x.285x.170	5.71x7.23x4.31	1.68	1.49	1.12	.93

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Computer-Grade Capacitors



SIZE CHART*

Last 3 letters and digit of Mfr's Type Number determine capacitor size.

Size Code	Dia. (A)	Lgth. (B)
C0S	3/8	15/16
D0N	7/16	3/4
D1G	7/16	1 3/8
D1N	7/16	1 3/4
E1G	1/2	1 3/8
G1L	5/8	1 3/8
G2L	5/8	2 1/8
J1L	1/4	1 1/8
J2L	1/4	2 1/8
L2C	7/8	2 1/8
N1C	1	1 1/8
N1L	1	1 1/8
N2L	1	2 1/8
N3C	1	3 1/8
N3L	1	3 1/8

MALLORY

ALUMINUM TUBULAR COMPUTER GRADE CAPACITORS EQUIVALENT TO SPRAGUE TYPE 39D

Useful life expectancy of approximately ten years when operated within rated working volts DC, surge voltage and ripple current as applied in computer type power supply circuitry where duty cycle and ambient temperatures are more severe than standard. Low dissipation factor also insures long operating life. Shelf life approximately three years with storage temperatures not to exceed +40°C. Std. PVC insulating sleeve. Pressure sensitive safety vent. Positive welded connection between metal case and negative terminal for grounding. **SPECIFICATIONS:** Operating Temp.: −40°C to +85°C. Tolerance: 3-75 WVDC −10%, +75%; 76-450 WVDC −10%, +50%. Reverse Voltage: Not to exceed 1.5 volts. DC Leakage Current: Will not exceed one milliampere at +25°C. Lead Strength: Will withstand a pull of 5 lbs. axially for a period of 5 seconds. Will withstand four bends without breaking. These capacitors may be subjected, without permanent damage, to conditions in transit where the storage temperature may range from −65°C to +85°C and the altitude may be up to 200,000 feet.

Stock No.	Mfr's Type* TCG	Cap. µF	WV DC	†	EACH 1-9	10-24	25-49	50-Up
852-5167	402U015N1L	4000	15	954	3.49	3.00	2.62	1.75
852-5170	802U015N2L	8000	15	1,353	4.12	3.50	3.09	2.26
852-5173	103U015N3C	10000	15	1,670	4.54	4.00	3.41	2.27
852-5188	102U025N1C	1000	25	575	3.10	2.73	2.33	1.55
852-5190	222U025J2L	2200	25	962	3.62	3.12	2.72	1.81
852-5200	251U030D1G	250	30	239	2.03	1.66	1.24	1.00
852-5215	500U050C0S	50	50	105	1.44	1.28	1.08	.72
852-5218	101U050E1G	100	50	175	2.46	2.10	1.85	1.23
852-5220	151U050D1G	150	50	199	3.03	1.66	1.24	1.00

Stock No.	Mfr's Type* TCG	Cap. µF	WV DC	†	EACH 1-9	10-24	25-49	50-Up
852-5228	501U050G2L	500	50	445	3.19	2.80	2.40	1.60
852-5237	232U050N3C	2300	50	1,800	4.64	4.00	3.41	2.27
852-5239	252U050N3L	2500	50	1,900	4.96	4.10	3.72	2.48
852-5254	500T150D1N	50	150	171	3.25	2.67	2.00	1.60
852-5256	101T150J1L	100	150	328	3.98	3.27	2.45	1.63
852-5259	251T150L2C	250	150	800	4.93	4.04	3.04	2.02
852-5270	201T250N3C	200	250	1,150	5.10	4.40	3.83	2.55
852-5290	100T450G1L	10	450	90	3.93	3.22	2.42	1.80
852-5295	200T450G2L	20	450	135	4.23	3.46	2.60	1.90

(†) Max. AC Ripple Current In mA at 120 Hz and 85°C.

TYPE CGS AND CG COMPUTER-GRADE CAPACITORS

TYPE CGS −40° TO +85°C ELECTROLYTICS

Stock No.	Type* CGS	Cap. mF	WV DC	Max. AC Ripple	EACH 1-9	10-24	25-49	50-Up
852-0824	123U010R2C	12,000	10	3.4	5.83	4.00	3.33	2.74
852-1015	892U015R2C	8,900	15	3.5	5.65	3.88	3.23	2.66
852-0888	253U015R4C	25,000	15	5.9	8.83	6.06	5.05	4.15
852-0930	383U015V3C	38,000	15	9.0	11.45	7.85	6.54	5.38
852-0953	472U025R2C	4,700	25	3.3	5.40	3.70	3.08	2.54
852-0968	562U025BD1	5,600	25	3.6	5.93	4.06	3.38	2.79
852-0810	822U025BF1	8,200	25	4.4	6.80	4.67	3.89	3.20
852-1016	892U025R3C	8,900	25	4.6	6.68	4.58	3.81	3.14
852-0831	133U025R4C	13,000	25	5.5	8.18	5.61	4.67	3.85
852-0871	203U025V3C	20,000	25	8.4	10.73	7.36	6.44	5.05
852-0897	293U025V4C	29,000	25	10.0	13.38	9.18	7.65	6.29
852-0945	433U025V5L	43,000	25	15.0	12.21	11.87	10.18	8.38
852-0875	222U040BB1	2,200	40	2.6	5.18	3.55	2.95	2.44
852-0961	512U040R3C	5,100	40	4.0	6.58	4.48	3.74	3.08
852-0811	622U040BF1	6,200	40	4/4	7.30	5.00	4.17	3.44
852-0815	113U040V3C	11,000	40	7.2	10.08	6.91	5.76	4.74
852-0837	173U040V4C	17,000	40	9.0	12.90	8.85	7.37	6.07
852-0936	403U040X4C	40,000	40	14.8	16.24	15.78	13.53	11.14
852-0876	222U050R2C	2,200	50	3.0	5.25	3.61	3.00	2.47
852-0938	412U050R3C	4,100	50	5.5	6.45	4.42	3.69	3.04
852-0974	612U050R4C	6,100	50	4.9	7.90	5.42	4.52	3.71
852-0812	652U050DD1	6,500	50	5 9	8.93	6.12	5.10	4.20
852-0813	112U075R2C	1,100	75	2.5	5.65	3.88	3.23	2.66
852-0870	212U075R3C	2,100	75	3.4	6.98	4.79	3.99	3.28
852-0955	482U075V3C	4,800	75	6.0	10.95	7.51	6.26	5.15
852-0858	173U075X4C	17,000	75	12.5	17.97	16.47	14.97	12.32
852-0935	402U100DF1	4,000	100	5.7	14.22	9.76	8.13	6.69
852-0866	201T250BB1	200	250	1.3	5.70	3.91	3.26	2.68
852-1014	851T250DD1	850	250	2.5	10.78	7.39	6.16	5.07

TYPE CG −40° TO +85°C ELECTROLYTICS

Stock No.	Type* CG	Cap. µF	WV DC	Max. AC Ripple	EACH 1-9	10-24	25-49	50-Up
852-0653	332U025R2C	3,300	25	1.8	3.86	3.56	3.22	1.84
852-0689	632U025R3C	6,300	25	2.5	4.54	4.18	3.78	2.16
852-0702	852U025D1	8,500	25	3.3	7.52	6.87	6.27	3.58
852-0600	103U025U3C	10,000	25	3.4	5.82	5.30	4.85	2.78
852-0601	323U025W4C	32,000	25	7.0	12.16	11.14	10.17	8.34
852-0621	152U050R2C	1,500	50	1.9	5.65	3.88	3.23	2.66
852-0675	452U50D1	4,500	50	2.8	6.86	6.25	5.72	3.27
852-0676	502U050U3C	5,000	50	3.5	6.07	5.56	5.06	2.89
852-0712	952U050V4C	9,500	50	5.0	8.70	8.00	7.25	4.15
852-0602	14U50F1	10,000	50	4.6	12.85	11.50	10.71	8.13
852-0640	223U050X4C	22,000	50	8.4	15.92	14.56	13.26	7.59
852-0603	13U75B1	1,000	75	1.5	6.58	4.51	3.76	3.09
852-0625	2251U100D1	2,250	100	2.8	9.42	8.57	7.85	4.49
852-0726	1551U150D1	1,550	150	3.3	9.41	8.60	7.84	4.48
852-0508	13T200D1	1,000	200	2.8	13.35	9.16	7.64	6.28
852-0635	241T450D1	240	450	1.3	8.71	8.00	7.26	4.15

ALLIED TYPE ARC 85° ELECTROLYTIC CAPACITORS

Stock No.	Mfr's Type	Cap. µF	WV DC	Size Code*	EACH 1-9	10-24	25-49	50-Up
710-0500	ARC15AC133	13,000	15	R4C	5.15	4.15	3.61	3.16
710-0503	ARC25BC183	18,000	25	V4L	7.72	6.39	5.39	4.72
710-0511	ARC40CD253	25,000	40	W4L	11.23	9.23	7.83	6.85
710-0515	ARC75BB392	3,900	75	V3C	6.83	5.75	4.75	4.16

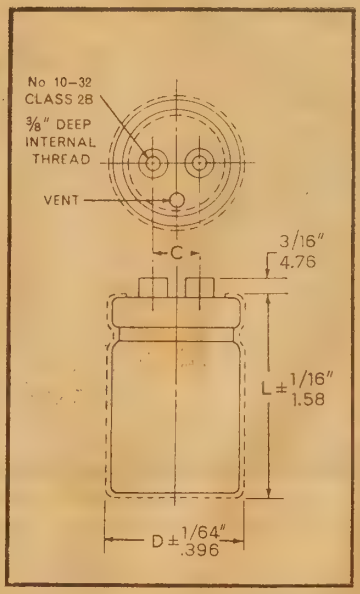
* See Size Code Table at right.



- **Operating Life Exceeds 10 Years**
- **Pressure-Sensitive Safety Vent**
- **Low ESR and Leakage Current**

Useful life expectancy of approximately ten years when operated within rated WVDC, surge voltage and ripple current as applied in computer type power supply circuitry where duty cycle and ambient temperature are more severe than standard. Tolerance: 0-150 WVDC, −10%; +75%; 200V up; −10%; +50%

Although temperature ranges for both CGS and CG series are as stated at left, tests have been conducted at 105°C and a voltage less than rated without incurring immediate catastrophic failure. These capacitors withstand six hours of vibration over frequency range of 10 to 55 cps and return, traverse within a period of one minute with maximum amplitude of vibrations of .03" (total excursion).



7/32" high terminal posts; 10-32 screws. See index for VR mounting clamps.

SPECIFY STOCK NO., MFR'S TYPE NO. AND CAPACITANCE WHEN ORDERING

SIZE CODE TABLE

(CG and CGS LAST 3 DIGITS IN TYPE NO.* INDICATE SIZE — SEE BELOW)

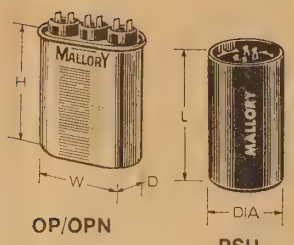
DIAMETERS — D	1 3/8"	1 3/4"	2"	2 1/2"	3"
LENGTHS — L All sizes in inches	BB1, R2C 2 1/8 R2L 2 5/8 BD1, R3C 3 1/8 R3L 3 5/8 BF1, R4C 4 1/8 R4L 4 5/8 R5C 5 1/8 R5L 5 5/8	U2C 2 1/8 U2L 2 5/8 U3C 3 1/8 U3L 3 5/8 ..... U4L 4 5/8 U5C 5 1/8 U5L 5 5/8	V2C 2 1/8 V2L 2 5/8 DD1, V3C 3 1/8 V3L 3 5/8 DF1, V4C 4 1/8 V4L 4 5/8 V5C 5 1/8 V5L 5 5/8 D1 5 5/8	W3C 3 1/8 W3L 3 5/8 W4C 4 1/8 W4L 4 5/8 W5C 5 1/8 W5L 5 5/8	X3L 3 5/8 F1, X4C 4 1/8 X4L 4 5/8 .... X5R 5 1/8 ....
TERMINAL SPACING — C	1/2"	3/4"	7/8"	1 1/8"	1 1/4"

FAMILY REFERENCE

ALLIED	MALLORY	SPRAGUE	CORNELL DUBLIER
ARC	CG, CGS	36D	FAH

Motor Run Capacitors and Mounting Hardware

MOTOR RUN AND START CAPACITORS



OP/OPN PSU

TYPE OP Designed especially for motor run and fluorescent ballast applications. Features include metal cases for max. environmental protection and quick disconnect terminals with flash guards for easy access. Capacitors are impregnated with non-flammable, high quality oil. Cap. tolerance: ±10%. Operating Temp. Range: −30° to +70°C. Oval case. Wt. 8 oz (227 gm).

TYPE PSU. Non-polarized dry electrolytic capacitors designed for intermittent duty in AC motor starting circuits. Round, molded plastic cases for above average oil and moisture resistance. Mounting, two quick disconnect terminals on the underside. Each supplied with two PSUA terminal adaptors for applications requiring solder or screw type connection. May also be mounted by plastic end cap, metal snap-in bracket or clamp-bracket — not supplied. Wt. 8 oz (227 gm).

Type OPN. Non-PCB With U.L. Recognized Protector

TYPE OP/OPN CONTINUOUS RUN

Stock No.	Mfr's Type	Cap μF	AC Volts	Size (DxLxW) In.	Size (DxLxW) MM	EACH 1-9	EACH 10-Up
852-4130	OP/OPN370	3	370	1 5/16x2 25/32x2 1/16	33.27x54.61x52.32	5.20	2.77
852-4132	OP/OPN470	4	370	1 5/16x2 25/32x2 1/16	33.27x54.61x52.32	5.90	3.15
852-4133	OP/OPN570	5	370	1 5/16x2 25/32x2 1/16	33.27x54.61x52.32	6.58	3.51
852-4135	OP/OPN670	6	370	1 5/16x2 25/32x2 1/16	33.27x54.61x52.32	7.35	3.92
852-4159	OP/OPN7X570	7.5	370	2 5/32x2 27/32x2 1/2	54.61x72.13x63.5	9.68	5.16
852-4157	OP/OPN1070	10	370	3 5/32x2 27/32x3 1/32	54.61x72.13x76.23	12.08	6.44
852-4160	OP/OPN1570	15	370	2 5/32x2 27/32x4 5/32	54.61x72.13x105.57	14.53	7.75
852-4148	OP/OPN2070	20	370	2 5/32x2 27/32x4 31/32	54.61x72.13x118.11	12.26	9.81
852-4161	OP/OPN3570	35	370	1 31/32x3 21/32x6 1/4	50x92.87x158.75	18.48	14.79
852-4164	OP/OPN35D570A	35.5	370	1 31/32x3 21/32x7 1/4	50x93x185	21.75	17.40
852-4158	OP/OPN540	5	440	1 5/16x2 5/32x3 3/4	33.34x54.77x95.25	9.03	4.81
852-4162	OP/OPN1040	10	440	1 29/32x2 29/32x3 7/8	48.42x73.82x98.43	13.48	7.19
852-4165	OP/OPN1540	15	440	2 5/32x2 27/32x5 5/8	54.61x72.13x142.88	12.77	10.21
852-4167	OP/OPN2040	20	440	1 29/32x2 29/32x6 3/4	48.42x73.82x171.45	15.87	12.69
852-4153	OP/OPN2540	25	440	1 31/32x3 21/32x6 1/4	50x92.87x158.75	18.14	10.88
852-4155	OP/OPN3040	30	440	1 31/32x3 21/32x8	50x92.87x203.2	20.17	16.13
852-0205	OP/OPN3540	35	440	1 31/32x3 21/32x9	50x93x228	23.95	19.16
852-0206	OP/OPN4040	40	440	1 31/32x3 21 32x9 1/2	50x93x240.5	32.85	26.28

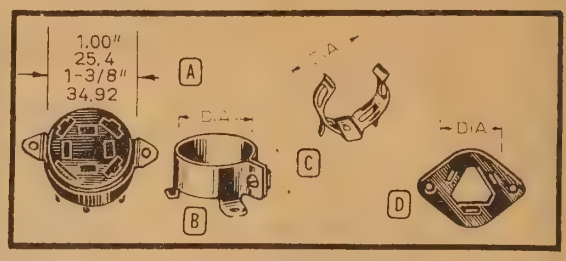
TYPE PSU MOTOR START

Stock No.	Mfr's Type	Cap μF	AC Volts	Size (Dia.xL.) In.	Size (Dia.xL.) MM	EACH 1-9	EACH 10-Up
852-4035	PSU10815	108-130	110-125	1 7/16x2 3/4	36.32x69.85	3.13	1.67
852-4043	PSU16115	161-193	110-125	1 7/16x2 3/4	36.32x69.85	3.60	1.92
852-4045	PSU18915	189-227	110-125	1 7/16x2 3/4	36.32x69.85	4.08	2.17
852-4054	PSU27015	270-324	110-125	1 13/16x3 3/8	45.97x85.59	5.23	2.79
852-4064	PSU40015	400-480	110-125	1 13/16x3 3/8	45.97x85.59	6.55	3.49
852-4079	PSU37815	378-440	110-125	1 13/16x3 3/8	45.97x85.59	6.15	3.28
852-4081	PSU21615	216-259	110-125	1 7/16x3 3/8	36.32x85.59	4.38	2.33
852-4082	PSU8815	88-108	110-125	1 7/16x2 3/4	36.32x69.85	2.95	1.57
852-4083	PSU12415	124-149	110-125	1 7/16x2 3/4	36.32x69.85	3.33	1.77
852-4084	PSU32415	324-388	110-125	1 9/16x3 3/8	45.97x85.59	5.90	3.15
852-4085	PSU14515	145-175	110-125	1 7/16x2 3/4	36.32x69.85	3.48	1.85
852-4086	PSU23315	233-280	110-125	1 7/16x4 3/8	36.32x111.12	4.83	2.57
852-4087	PSU24315	243-292	110-125	1 13/16x3 3/8	45.97x85.59	5.10	2.72
852-4088	PSU54015	540-648	110-125	2 1/16x4 3/8	52.32x111.12	9.13	4.87
852-4078	PSU10835	108-130	220-250	1 13/16x4 3/8	45.97x111.12	9.18	4.89
852-4080	PSU10830	108-130	330	2 &1/16x4 3/8	65.09x111.12	12.85	6.85

A NOTE ON MOTOR START CAPACITORS

Motor start capacitors are in the circuit only during the starting period of the motor. When the motor reaches a predetermined speed, the capacitor is disconnected from the circuit and the motor runs as an induction motor. Use the next larger capacitor if unsure of proper size.

CAPACITOR MOUNTING HARDWARE



Ⓐ MOUNTING SOCKETS

For Mallory FP type capacitors. Permit instant replacement. Molded from black bakelite. Recessed center contacts for extended prongs. Also take short prongs.

Stock No.	Mfr's Type	Size In.	EACH 1-99	EACH 100-Up
750-0816	2C5	1	1.65	.90
750-0817	2C7	1 3/8	1.78	.98

Ⓑ MOUNTING RINGS (Wt., 1 oz.)

Stock No.	Mfr's Type	Dia. Size (In.)	EACH 1-99	EACH 100-Up
852-7530	VR1	1-1 1/16	.57	.37
852R7532	VR3	1 3/8-1 7/16	.57	.37
852-7533	VR4	1 1/2-1 9/16	.61	.40
852-7535	VR6	1 3/4-1 13/16	.65	.43
852R7536	VR8	2-2 1/16	.73	.48
852-7538	VR10	2 1/2-2 9/16	.77	.51
852R7540	VR12	3	.87	.58

Ⓒ UNIVERSAL CLAMPS (Wt., 1 oz.)

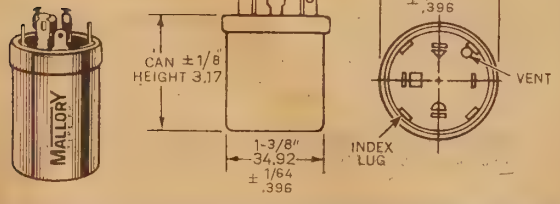
Stock No.	Mfr's Type	Dia. Size (In.)	EACH 1-99	EACH 100-499	EACH 500-Up
852-6014	TH17	5/8-1 1/16	.20	.13	.11
852-6016	TH19	3/4-1 3/16	.21	.14	.11
852-6018	TH21	7/8-1 5/16	.22	.15	.12
852-6020	TH23	1-1 1/16	.22	.15	.12
852-6021	TH25	1 3/8-1 7/16	.23	.16	.13

Ⓓ MOUNTING PLATES

Standard mounting plates for mounting "Twist-Prong" capacitors. Phenolic. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	Size In.	EACH 1-99	EACH 100-499	EACH 500-Up
852-0305	BP4	1	.26	.17	.07
852-0307	BP6	1 3/8	.26	.17	.07

STANDARD TWIST-PRONG ELECTROLYTIC CAPACITORS

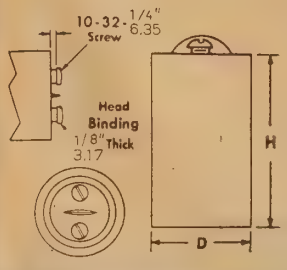


Types FP, WP. Aluminum can surrounding capacitor is common negative. FP and WP types are constructed with etched plate anodes. **Specs.:** Operating Temp. Range: −30°C to +85°C. Tol.: 3 to 50 WVDC −10%, +150%. 51 to 350 WVDC −10%, +100%. Over 350 WVDC −10%, −50%. Operating Life: 5 yrs. or more when operated within working voltage, surge voltage and ambient temp. specs. Capacitors stamped with EIA code, date of manufacture, nominal capacitance, working DC voltage, designated part no. and terminal designation. **(Specify Stock No. and Type When Ordering).**

SINGLE SECTION (FP, Except †WP)

Stock No.	Mfr's Type	Cap. μF	WV DC	Height In.	Height (mm)	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
852-7718	065†	500	50	2	50.8	4.50	3.00	2.15	1.05
852-7720	066B†	500	50	1 3/4	44.4	4.50	3.00	2.15	1.05
852-1515	066.5	1000	50	2	50.8	3.37	2.97	2.41	1.93
852-7723	068†	1500	50	3	76.2	6.50	4.33	3.10	1.85
852-1552	146	40	450	2	50.8	3.68	2.45	1.76	1.04
852-1555	149	80	450	2 1/2	63.5	3.35	2.93	2.39	1.91
852-1557	150A	100	450	3	76.2	3.85	3.35	2.74	2.20
852-1558	155A	125	450	3	76.2	4.50	3.90	3.21	2.57
852-1570	187A	90	500	3	76.2	6.15	4.10	2.94	1.85

TYPE HC DRY ELECTROLYTICS



Plastic case with silicone rubber vent on type to maintain proper electrolyte level and prevent explosions. Operate at −20 to +85°C, where operation at ambient temperatures above 65°C is not expected to exceed 15% of total time. (†) For photoflash. Tolerances: 200 WVDC, −10% to +100%; 450 WVDC, −10% to +50%. Av. shpg. wt. 1 lb.

CASE SIZES

Case No.	Dia. In.	Dia. (mm)	Height In.	Height (mm)	Terminals
5	1 13/16	46.03	4 3/8	111.12	10-32x1/4" screw
7	2 1/16	52.38	4 3/8	111.12	10-32x1/4" screw



TYPE HC POLARIZED

Stock No.	Mfr's Type	μF	WV DC	Max. Ripple mA‡	Case No.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
852-2063	HC20005A	500	200	1400	5	13.56	11.30	7.98	4.88
852-2077	HC45003†	300	450	.....	7	21.28	17.73	10.81	8.19

(‡) Max. permissible AC ripple at 120 Hz. For 60 Hz. use 80% of number.

See Page 2 for the Allied Electronics Facility Nearest You



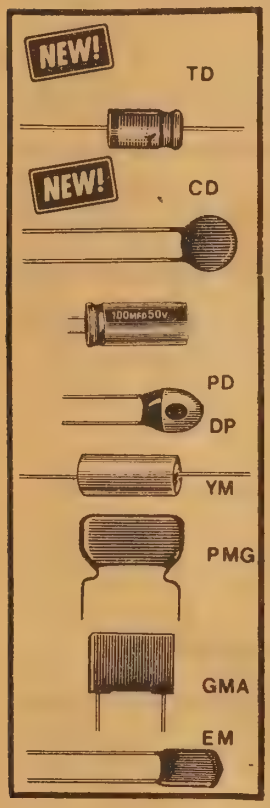
NEW!

Capacitor Kits

DESIGN ENGINEER CAPACITOR KITS

These kits were created especially to enable engineers to design circuitry exactly the way they want. No longer any waiting for samples or having to use only what's available. Each kit comes complete with a full range of the current most popular values and mounting configurations. All kits contain a unique Component Locator and Reorder Form that provides detailed content information which allows for rapid location of items plus a system for noting exact inventory. Comes in a handy, lightweight, compartmentalized plastic box designed to take the confusion out of storing capacitors furnished in the kit. It's compact, sturdy, and stacks easily. Fits anywhere in your shop, takes up very little space, and keeps your kit parts separated and easy to get to. Box provides parts adequate protection against weather, dust, and accidental knocking about.

Plastic Boxes Divided Into Compartments For Easy Storage and Accessibility.



TD1-D SERIES KIT

Miniature Axial Lead Aluminum Electrolytic. Low dissipation factor and leakage current. 100 per kit. **Mfd ratings:** 1, 2.2, 3.3, 4.7, 10 with working voltage of 50VDC; 4.7, 10, 22, 33, 50 with working voltage of 35VDC; 220, 330 with working voltage of 25VDC; 470 with working voltage of 16VDC; plus other values within specified value range.
623-0512 ..... **Each 29.95**

TD2-D SERIES KIT

Miniature Axial Lead Aluminum Electrolytic. Low dissipation factor and leakage current. 25 per kit. **Mfd ratings:** 470, 1000 with working voltage of 50VDC; 330, 3300 with working voltage of 35VDC; 1000 with working voltage of 25VDC; 220, 2200, 470 with working voltage of 16VDC; plus other values within specified value range.
623-0514 ..... **Each 29.95**

CD-D SERIES KIT

Miniature size Durez coated ceramic disc. 250 per kit. **Pfd ratings:** 470, 1000, 2200, 3300, 4700, 10000, 22000, 33000, 47000 with working voltage of 50VDC; plus other current popular values within specified value range.
623-0505 ..... **Each 29.95**

PD SERIES KIT

Miniature radial lead aluminum electrolytic featuring vertical package welded construction. 75 per kit. **Mfd ratings:** 1, 2.2, 3.3, 4.7, 10 with working voltage of 50 VDC; 10, 22, 33, 47 at 35 VDC; 220, 470 at 25 VDC; 1000 at 16 VDC; plus 10 popular assorted values.
623-0510 ..... **Each 29.95**

DP SERIES KIT

Radial lead epoxy-dipped tantalum. Space-saving size with close tolerances. 60 per kit. **Mfd ratings:** 47 at working voltage of 6.3 VDC; 100 @ 10 VDC; 4.7, 6.8, 22 @ 16 VDC; 2.2, 4.7, 10 @ 25 VDC; .1, .22, .47, 1.0 @ 35 VDC, plus 10 popular assorted values.
623-0500 ..... **Each 29.95**

YM SERIES KIT

Metalized polyester film capacitor of wrap and fill construction, non-inductively wound. 50 per kit. **Mfd ratings:** .0047, .0068, .022, .033, .047, .068, .01, .22, .33, .47, .68, .1, 1.0, 2.2 at working voltage of 250 VDC, plus 10 popular assorted values.
623-0520 ..... **Each 29.95**

PMG SERIES KIT

Metalized polyester film, epoxy-dipped with crimped radial leads. 75 per kit. **Mfd ratings:** .0047, .0068, .01, .022, .033, .047, .068, .1, .22, .33, .47, .68, 1.0 at working voltage of 250 VDC, plus 10 popular assorted values.
623-0530 ..... **Each 29.95**

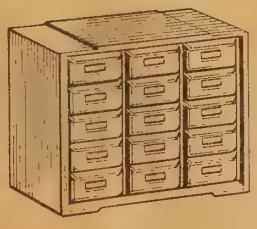
GMA SERIES KIT

Metalized polyester film capacitor with uniform size molded case, bottom fill with epoxy resin. 35 per kit. **Mfd ratings:** .0047, .0068, .01, .022, .033, .047, .068, .1, .22, .33, .47, .68, 1.0 at working voltage of 250 VDC, plus 5 popular assorted values.
623-0540 ..... **Each 29.95**

EM SERIES KIT

Epoxy-dipped polyester film, subminiature size. 150 packaged in compartment box. **Mfd ratings:** .001, .0022, .0033, .0047, .0068, .01, .022, .033, .047, .068, .1, .22 at working voltage of 100 VDC.
623-0550 ..... **Each 29.95**

CAPACITOR KITS IN PLASTIC STORAGE CABINETS



Organization of components is made simple with the help of an easy to display storage cabinet. Capacitor kits are sturdy, plastic storage cabinets loaded with the capacitor types you want. Easy to stack cases cuts down on the time you usually spend finding the right components and checking inventory. There is a capacitor kit on this page to suit your needs. Order a kit from Allied today.

PVC 151 MYLAR CAPACITOR MALLOBIN

A popular assortment of 29 different values of dipped mylar capacitors. Contains 58 pieces in voltage ratings of 600, 1600, and 2000 WVDC. Capacitors are housed in an easily accessible storage cabinet.
852-2606 ..... **Each 20.37**

NEW!

SX 301 POLYSTYRENE CAPACITOR MALLOBIN

Contains an assortment of 201 of the most popular polystyrene capacitors. Ranges from 20 PF's through 10,000 PF's at 600 WVDC in 67 different ratings. Capacitors are conveniently housed in an easily accessible storage cabinet.
852-2605 ..... **Each 48.35**



CERAMIC CAPACITOR MALLOBIN

An assortment of general purpose, type GP, heavy-duty bypass, type B, and Sparkcap®, type SPG, capacitors. General purpose capacitors range from 3.3pf-20K pf at 1000 WVDC and 30K-50K pf at 500 WVDC. Bypass capacitors range 1000 pfd to 10K pfd at 1000 WVDC and the Sparkcap capacitors range 0.75 pfd at 1-2KV; 0.75 pfd and .01 ufd at 2-3KV. Ceramics are conveniently housed in an easily accessible storage cabinet.
852-2601. Type CCC-1, 860 pieces, 73 values ..... **Each 130.00**
852-2602. Type CCC-1A, 344 pieces, 73 values ..... **Each 80.50**

CERAMIC CAPACITOR MALLOBIN

An assortment of low voltage Magnacaps®, type MAG, and miniature ceramic, types TA and SM, capacitors. The Magnacaps® range 0.1-2.2 mfd at 3 WVDC; 0.05-0.46 mfd at 12 WVDC; 0.01-0.22 mfd at 16 WVDC; 0.01-0.22 WVDC; 01-.1 mfd at 50 WVDC. The TA miniatures range .005-0.1 mfd at 100 WVDC and the SM types range .001-.02 mfd at 500 WVDC. These ceramics are conveniently housed in an easily accessible storage cabinet.
852-2603. Type CCC-3, 490 pieces, 49 values ..... **Each 135.00**
852-2604. Type CCC-3A, 196 pieces, 49 values ..... **Each 85.97**

CERAMIC DISC CAPACITOR KIT

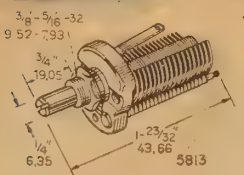
KIT — 60D Disc Capacitor Kit. Contains 245 of the most widely used general purpose disc capacitors in 600 and 1000 WVDC units. For bypass and noncritical coupling applications. Includes five each: 5, 10, 15, 20, 22, 25, 33, 47, 50, 68, 120, 150, 180, 220, 250, 270, 300, 330, 390, 470, 500, 680, 820, 1500, 2200, 3000, 4700, 6800, 20,000, 50,000 pF. Ten each: 100, 200, 2000 pF. Fifteen each: 5000 pF. Twenty-five each: 1000, 10,000 pF. Sturdy 15-drawer cabinet.
748R0765 ..... **Each 59.95**

TT 15-1 MALLOBIN

"Tiny-tubular" aluminum electrolytic capacitors. Assortment contains two each of 15 ratings from 100 mfd at 6 WVDC to 50 mfd at 50 WVDC. Wire leads: 2" long (±¼"). Temperature Range: −55°C to 85°C, 3 to 150 volts. Tolerance: −10%, +75%. Housed in permanent cabinet.
852-4710 ..... **Per Kit 21.95**

Trimmer Capacitors and RFI Power Line Filters

MODEL APC TRIMMERS



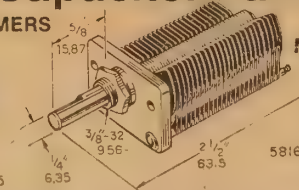
Type APC-5813. Capacitance, 7-29.2 pF. Shaft, ¼", extends ¾". Thread, 5/16-32. Breakdown, 1000 VRMS. L., 2 3/32".

Type APC-5814. Capacitance, 3.7-35.2 pF. Shaft, ¼". extends ¾". Thread, 5/16-32. Breakdown, 500 VRMS. L., 1 23/32".

Type APC-5815. Capacitance, 7.2-151 pF. Shaft, ¼", extends 7/32". Mounting posts 3/32" long. Breakdown, 500 VRMS. L., 2 9/32".

Stock No.	Type APC-	Cap. pF	EACH 1-9	10-49	50-Up
695-2200	5813	7-29 2	7.78	5.24	4.50
695-2100	5814	3.7-35 2	6.78	4.52	3.95
695-2300	5815	7.2-151	9.45	6.40	5.50

MODEL APL TRIMMERS



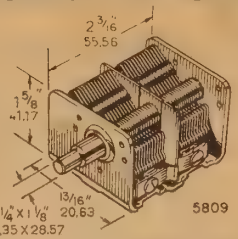
Type APL5816. Capacitance, 10.5-324 pF. Plates, 39. Shaft, ¼", extends ⅝". L., 2½".

Type APL5817. Capacitance, 5-56.8 pF. Plates, 13. Shaft, ¼", extends ⅝". L., 1 25/32".

Type APL5818. Capacitance, 8.7-114.9 pF. Plates, 26. Locking bearing construction. Shaft, ¼", extends 35/64". L., 2 23/64".

Stock No.	Type APL-	Cap., pF	EACH 1-9	10-49	50-Up
695-3300	5816	10.5-324	10.02	6.88	5.90
695-3100	5817	5-56.8	6.63	4.50	3.88
695-3200	5818	8.7-114.9	9.45	6.40	5.50
695-3400	5819	97.5-106.2	8.25	5.60	4.80
695-3500	5820	139.8-145 9	7.35	4.68	3.98

MODEL S2, S3 TRIMMERS



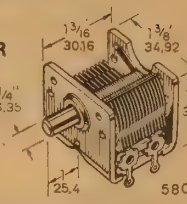
Type S2-5809. Two sections, 10.3-365 pF each section. Shaft ¼", 1⅛" long. Has 12 PF trimmer each section. CCW rotation. Three 6-32 mtg. holes. 2 3/16 x 1 13/16 x 1 5/8" h.

Type S3-5810. Three sections, 12.5-432 pF each section. Shaft ¼", 1⅛" long. Has 12 pF trimmer each section. Three mtg. holes. 3 3/16 x 1 13/16 x 1 5/8".

Stock No.	Mfr's Type	Cap., pF	EACH 1-9	10-49	50-Up
695-4100	S2-5809	10.3-365	14.18	9.30	7.96
695-4200	S3-5810	12.5-432	12.40	11.35	10.50

N50 SINGLE SECTION CAPACITOR

- Very High Capacitance, Small Frame
- MIL-D-3115 Insulation



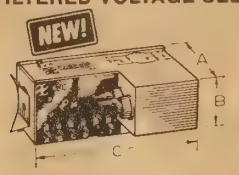
Type 5808. Excellent for use in AM radios, test equipment, kit building. Capacitance, 16.0 to 365 pF. Capacitance increases with counterclockwise rotation. Shaft, ¼" dia., 1" long. Front and rear frame tapped #6-32, 3 places, 120° apart for mounting. Has 33 plates. Size, 1 3/16 x 1 3/8 x 1 5/16" high. Available in lower pF values.

Stock No.	Cap., pF	EACH 1-9	10-49	50-Up
695-1000	16.0-365	10.95	6.95	5.95

RFI POWER LINE FILTERS



FILTERED VOLTAGE SELECTING AND FUSED CONNECTORS



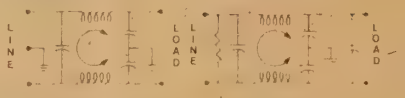
This universal connector eliminates the need for internal wiring changes, special power supplies or for different line cords. UL/IEC approved with a fuseholder and a means to change transformer primary connections with a unique voltage selector card. Built-in filter for RFI protection of equipment. Dimensions: (A) 1.82" (46.22mm); (B) 1.15" (29.21mm); (C) 2.65" (67.31mm). Fuse: .25x1.25. Wt. 2.8 oz.

Stock No.	Mfr's Type	Max. Amps	Oper. Freq.	Max. Leakage Cur.	EACH 1-9	10-24	25-99	100-Up
754-0204	6J4	6	50-400HZ	500μA	12.12	11.50	10.95	9.75

GENERAL ELECTRICAL SPECIFICATIONS

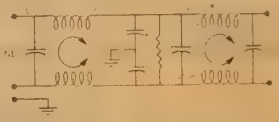
	B, K & R SERIES 115-250VAC	EF SERIES 115-250VAC
RATED VOLTAGE		
MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND 115VAC/60 Hz	0.5 mA @115VAC	0.25mA @115VAC
CAPACITANCE, LINE TO GROUND	10,000 pF	5000 pF
OPERATING FREQUENCY	50-400 Hz	50-60 Hz
HIGH POT TEST	2250VDC	2250VDC

SERIES B AND EF



SERIES K

SERIES R



SERIES B FILTERS (See Schematic)

TWO "L" SECTIONS — 1 TO 30 AMPS; 115/250 VOLTS AC, 60 HZ AC

B series RFI power line filters are the most popular units in the entire line. They are general purpose filters, effectively providing RFI control of line-to-ground noise—in a small size, at lowest cost. These filters are designed to meet a wide variety of applications and are available in a broad selection of current ratings and termination styles.

Stock No.	Mfr's Type	Fig.	Case Style	Size LxWxH In.	Size LxWxH MM	Max. Line Amp	DC Ω	EACH 1-9	10-24	25-49	50-Up
754-0206	1B1	A	B1	2.50x2.02x.625	63.5x51.06x15.87	1	.15	9.45	7.60	6.51	5.79
754-0230	2B1	A	B1	2.50x2.02x.625	63.5x51.06x15.87	2	.04	8.55	6.86	5.88	5.23
754-0239	2B4	D	B4	2.00x2.42x.750	50.8x61.42x19.05	2	.04	9.98	8.02	6.87	6.11
754-0255	3B4	D	B4	2.00x2.67x.750	50.8x67.7x19.05	3	.08	11.25	9.03	7.74	6.88
754-0261	5B1	A	B1	2.50x2.39x.750	63.5x61.5x19.05	5	.02	8.75	7.02	6.02	5.35
754-0270	5B4	D	B4	2.00x2.67x.750	50.8x67.7x19.05	5	.02	10.18	8.18	7.01	6.23
754-0276	10B1	A	B1	2.50x2.39x1.12	63.5x61.5x28.7	10	.015	9.60	7.72	6.61	5.88
754-0301	20B1	A	B1	2.78x3.14x1.12	70.6x79.6x28.7	20	.01	14.98	12.75	10.93	9.72
754-0306	20B6	E	B6	3.38x2.00x1.13	85.85x50.8x28.7	20	.01	16.98	14.48	12.41	11.04
754-0406	30B6	E	B6	5 25x3.31x1.5	133 35x84 07x38.1	30		28.98	24.21	20.75	18.44

SERIES K FILTERS WITH LINE-TO-LINE CAPACITORS

2 TO 20 AMPS; 115/250 VOLTS AC, 60 HZ AC

The K series RFI power line filters is similar to B series at left; they have the added feature of being extremely effective in the control of line-to-line as well as line-to-ground RF interference. Particularly suited where pulsed, continuous and/or intermittent RF interference is present in your application. They should be used where line-to-line interference protection is required for your equipment.

Stock No.	Mfr's Type	Fig.	Case Style	Size LxWxH In.	Size LxWxH MM	Max. Line Amp	DC Ω	EACH 1-9	10-24	25-49	50-Up
754-1025	2K1	A	K1	2.78x2.89x.875	70.6x73.3x22.2	2	.04	11.00	8.26	6.67	6.03
754-1035	2K3	C	K3	2.78x1.81x.875	70.6x45.97x22.2	2	.04	11.58	8.70	7.02	6.34
754-1075	5K1	A	K1	2.78x2.89x1.13	70.6x73.3x28.7	5	.02	11.13	8.37	6.76	6.11
754-1082	5K4	D	K4	2.00x2.67x1.12	50.8x67.7x28.7	5	.02	12.73	9.57	7.73	6.98
754-1087	10K1	A	K1	2.78x3.14x1.12	70.6x79.6x28.7	10	.015	12.00	9.03	7.29	6.58
754-1095	10K6	E	K6	3.38x2.00x1.13	85.85x50 8x28.7	10	.015	14.18	10.66	8.61	7.78
754-2080	20K1	A	K1	3.32x3.14x1.50	84.4x79.6x38.10	20		16.68	13.10	10.58	9.56

SERIES EF INTERNATIONAL FILTERS (See Schematic)

3 TO 6 AMPS; 115-250 VOLTS AC, 50-60 HZ AC

The EF International series of RFI power line filters incorporates the special IEC (International Electrotechnical Commission) power line connector. This connector has 4mm minimum pin spacing and complies with all current and proposed requirements for use with industrial and test equipment in the European market where a detachable power cord is part of the equipment design. The EF series features extremely low leakage current; meets IEC, BSI, VDE and CSA requirements for data processing equipment.

Stock No.	Mfr's Type	Fig.	Case Style	Size LxWxH In.	Size LxWxH MM	Max. Line Amp	DC Ω	EACH 1-9	10-24	25-49	50-Up
754-0253	3EF1	F	E1	1.97x1.97x.79	50.0x50.0x20 1	3	.05	11.43	9.24	7.48	6.59
754-0274	6EF1	F	E1	1.97x1.97x.79	50.0x50.0x20.1	6	.03	10.75	8.69	7.03	6.20
754-0275	6EF2	G	E2	1 97x1.55x.83	50.0x39.4x21.4	6	.03	10.75	8.69	7.03	6.20
754-0254	3EF2	G	E2	1.97x1.55x.83	50.0x39.4x21.4	3	.05	11.42	9.24	7.48	6.59

SERIES R FILTERS (See Schematic)

TWO "T" SECTIONS — 1 TO 10 AMPS; 115/250 VOLTS AC, 50-60 HZ AC

The R series RFI filters incorporate two T sections and provide premium performance at reasonable cost. Designed to meet high attenuation at low frequencies. The 1- and 3-amp versions have an insertion loss as low as 45 dB at 150 kHz. These dual-section filters provide positive RFI control of line-to-line as well as line-to-ground noise. Small in size, designed for computer peripheral and a wide variety of other critical applications. *Case style R3 has wire/wire terminations.

Stock No.	Mfr's Type	Fig.	Case Style	Size LxWxH In.	Size LxWxH MM	Max. Line Amp	DC Ω	EACH 1-9	10-24	25-49	50-Up
754-2001	1R1	H	R1	2.75x1 75x1.12	69.9x44.45x28.7	1	.30	16.98	14.12	12.07	10.72
754-2015	2R1	H	R1	2.75x1.75x1.12	69.9x44.45x28.7	2	.08	15.98	13.35	11.41	10.14
754-2030	3R1	H	R1	3.32x2.00x1.12	84.3x50.8x28.7	3	.16	16.98	14.36	12.27	10.90
754-2045	5R1	H	R1	3.32x2.00x1.12	84.3x50.8x28.7	* 5	.04	15.98	13.47	11.51	10.22
754-2055	5R3	H	R3*	3.32x2.00x1.12	84.3x50.8x28.7	5	.04	15.98	13.95	11.92	10.59
754-2060	10R1	H	R1	3.32x2.00x1.5	84.3x50.8x38.1	10	.03	16.98	14.19	12.13	10.77
754-2070	10R3	H	R3*	3.32x2.00x1.5	84.3x50.8x38.1	10	.03	16.98	14.67	12.54	11.14
754-2075	10R6	E	R6	3.32x2 00x1 5	84.3x50 8x38 1	10	03	18.98	16.00	13.67	12.15

7½ FOOT 3-CONDUCTOR LINE CORDS

Type 80-1255. Mates with 'B' Series filters.
754-0855. 1-24 ..... **Each 4.73** **25-Up** ..... **Each 3.15**
Type 80-1245. Mates with EF International filters and 6J4 connectors.
754-0845. 1-24 ..... **Each 5.68** **25-Up** ..... **Each 3.79**

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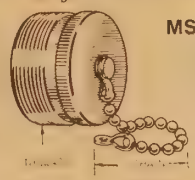
MS TYPE 9760 DUST CAPS FOR RECEPTACLES

Provide protection against live circuits and keep out dirt and dust when connector is not in use. Have internal threads especially designed for use with Series MS3100A, MS3101A and MS3102A receptacles. Beaded chain. A soft rubber disc sits on the connector shell forming a watertight joint. Cadmium olive drab finish. Average shipping weight 2 oz.



Stock No.	MS Type	Fits Shell	Dimensions — Inches			EACH		
			Threads	A	B	1-9	10-49	50-Up
712-2538	9760-10	10S, 10SL	5/8—24	13/16	7/16	1.48	.89	.75
712-2540	9760-12	12, 12S, 12SL	3/4—20	15/16	7/16	1.33	.80	.66
712-2542	9760-14	14, 14S	7/8—20	1 1/16	7/16	1.43	.85	.70
712-2544	9760-16	16, 16S	1—20	1 1/8	7/16	1.65	.95	.79
712-2546	9760-18	18	1 1/8—18	1 5/16	7/16	1.85	1.11	.94
712-2548	9760-20	20	1 1/4—18	1 7/16	7/16	2.26	1.23	1.08
712-2550	9760-22	22	1 3/8—18	1 9/16	7/16	2.35	1.40	1.14
712-2552	9760-24	24	1 1/2—18	1 11/16	7/16	3.38	1.63	1.58
712-2554	9760-28	28	1 3/4—18	1 59/64	1/2	3.27	1.95	1.61
712-2558	9760-36	36	2 1/4—16	2 7/16	1/2	5.86	2.89	2.76

MS TYPE 9760 DUST CAPS FOR PLUGS



Male caps and chains especially designed for Series MS3106 and MS3108 plugs. Have external threads and are used on all plugs where a coupling ring is provided. Provide excellent protection against live circuits in a wide variety of applications. Beaded chain. Have cadmium olive drab finish. Average shipping weight 2 oz.

Stock No.	MS Type	Fits Shell	Dimensions — Inches			EACH		
			Threads	A	B	1-9	10-49	50-Up
712-2539	9760-10P	10S, 10SL	5/8-24	5/8	21/32	1.75	1.08	.89
712-2543	9760-14P	14, 14S	7/8-20	7/8	27/32	2.23	1.35	1.12
712-2545	9760-16P	16, 16S	1-20	1	27/32	2.53	1.54	1.28
712-2547	9760-18P	18	1 1/8-18	1 1/8	27/32	2.88	1.61	1.43
712-2555	9760-28P	28	1 3/4-18	1 3/4	27/32	4.35	2.55	2.12
712-2559	9760-36P	36	2 1/4-16	2 1/4	27/32	7.95	3.87	3.74

CABLE CLAMPS



SERIES 3057. For jacketed cable or wires protected by tubing. Supports at plug or receptacle. Use with rubber bushing for firm grip. *Step-down. Wt. 3½ oz.

Stock No.	MS Type 3057	Fits Shell	EACH		
			1-9	10-49	50-Up
712-2500	3057-3	8S, 10S	2.75	2.20	1.76
712-2501	3057-4	12, 12S	2.78	2.22	1.78
712R2503	3057-6	14, 14S	2.85	2.28	1.82
712R2505	3057-8	16, 16S	3.08	2.46	1.97
712R2507	3057-10	18	2.58	2.06	1.65
712-2533	97-3057-10-6*	18	3.10	1.77	1.35
712R2509	3057-12	20, 22	2.88	2.30	1.84
712-2534	97-3057-12-6*	20, 22	3.16	1.79	1.37
712R2511	3057-16	24, 28	2.93	2.34	1.87
712-2513	3057-20	32	4.13	3.30	2.64
712-2515	3057-24	36	4.25	3.40	2.72

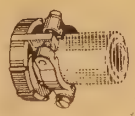
AN3420 TELESCOPING BOOTS



Rubber bushing designed for MS3057A cable clamp. Protects wire bundles and unjacketed cables from possible damage by cable clamp. Telescope for use with cable too small in relation to connector used. Shpg. wt. 1½ oz.

Stock No.	Type No.	Cable O.D.	EACH		
			1-9	10-49	50-Up
712-2579	9779-513-3	0.130	.37	.30	.24
712-2580	9779-513-4	0.220	.41	.31	.25
712R2581	9779-513-6	0.312	.43	.33	.26
712-2582	9779-513-8	0.437	.37	.27	.22
712-2583	9779-513-10	0.562	.37	.27	.22
712-2584	9779-513-12	0.625	.41	.31	.25
712-2585	9779-513-16	0.750	.52	.40	.32
712-2587	9779-513-24	1.250	.83	.62	.50

MS3057A CABLE CLAMP

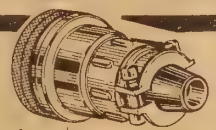


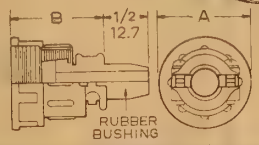
Strong, lightweight. Both clamping halves float so that cable is always centered for maximum strain relief. AN3420 boot provides support and weatherproofing. Extra boots may be used for small cables. Shpg. wt. 5 oz.

Stock No.	MS Type	Fits Shell	EACH		
			1-9	10-49	50-Up
712-2502	3057-4A	10SL, 12, 12	2.93	2.34	1.87
712R2504	3057-6A	12SL, 14, 14	3.05	2.44	1.95
712-2506	3057-8A	16, 16S	3.28	2.62	2.10
712R2508	3057-10A	18	2.78	2.22	1.78
712-2510	3057-12A	20, 22	2.78	2.22	1.78
712R2512	3057-16A	24, 28	2.98	2.38	1.90
712-2516	3057-24A	36	4.33	3.46	2.77

WATERPROOF CABLE CLAMPS

The complete waterproof cable clamp assembly No. 9767 (for use with MS connectors) consists of an AN3057 Cable Clamp, a rubber bushing, washer and an AN3055 Adapter. It is available for all sizes MS and 97 plugs.

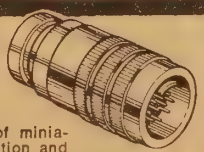


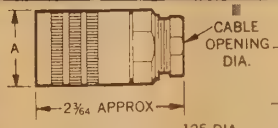


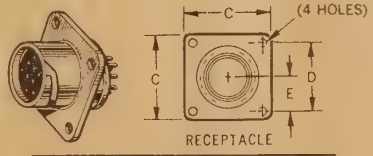
Stock No.	Mfr's Type	Max. Cable O.D. Inches	Connector Size	Dimension — Inches			Weight Lbs. per 100	EACH		
				A	B	Threads		1-9	10-49	50-Up
712-9000	9767-12-4	7/32	10SL, 12S, 12	25/32	1 17/32	5/8-24	3.82	5.03	4.02	2.36
712-9005	9767-14-4	7/32	12SL, 14S, 14	29/32	1 17/32	3/4-20	3.87	5.70	4.56	2.68
712-9010	9767-16-6	11/32	16S, 16	1 1/16	1 19/32	7/8-20	5.84	5.60	4.48	2.63
712-9015	9767-18-6	11/32	18	1 3/16	1 19/32	1-20	5.94	5.30	4.24	2.49
712-9020	9767-16-8	7/16	16S, 16	1 1/16	1 19/32	7/8-20	6.92	5.65	4.52	2.66
712-9030	9767-22-8	7/16	20, 22	1 3/8	1 19/32	1 3/16-18	7.27	6.08	4.86	2.86
712-9045	9767-22-12	11/16	20, 22	1 3/8	1 21/32	1 3/16-18	12.65	7.20	5.76	3.39
712-9050	9767-28-16	27/32	24, 28	1 5/8	1 25/32	1 7/16-18	14.95	7.83	6.26	3.68

SERIES 165 MS-TYPE MINIATURE CONNECTORS

- UL Recognized



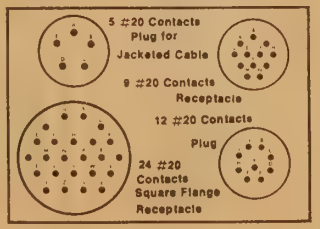




Pressure-proof and completely weather-proof miniature connectors. Widely used in instrumentation and miniaturized electronic equipment. These highly reliable connectors are available in both small and large shell sizes providing enough variation for a wide range of applications. Contacts are gold over silver plating. Aluminum shells feature quick bayonet coupling. Small receptacles mount in 13/16" hole; secure through four 1/8" holes on 25/32" centers. Large receptacles require 1 1/16" hole with four 1/8" holes on 1 5/16" centers. Plugs are 2 1/16" long. Small plugs are 57/64" dia.; large plugs are 1 9/64" in dia. Rated 500 volts rms, except *600 volts. All have strain relief clamps. Shells are aluminum with neutral-color chromium finish. Dielectric material is diallyl phthalate. All have "O" ring seals. Av. shpg. wt. 3 oz.

DIMENSIONS (Inches)

	A	B	C	D	E
Small	57/64	3/8	1 1/16	25/32	25/64
Large	1 9/64	21/32	1 5/16	31/32	31/64



SMALL SHELL—5 No. 20 CONTACTS

Stock No.	Type No.	Contacts and Ampere Rating	Description	EACH	
				1-9	10-Up
713-5570	165-33	*5 @ 7.5	Male Plug	10.57	7.53
713-5573	165-34	*5 @ 7.5	Female Plug	13.00	9.26
713-5576	165-35	*5 @ 7.5	Male Recept.	10.68	5.07
713-5579	165-36	*5 @ 7.5	Female Recept.	14.33	6.81

SMALL SHELL—9 No. 20 CONTACTS

713-5526	165-13	9 @ 7.5	Male Plug	10.84	7.71
713-5529	165-14	9 @ 7.5	Female Plug	14.16	10.07
713-5532	165-15	9 @ 7.5	Male Recept.	11.43	5.44
713-5535	165-16	9 @ 7.5	Female Recept.	10.92	7.79

SMALL SHELL—12 No. 20 CONTACTS

713-5516	165-9	12 @ 7.5	Male Plug	12.29	8.75
713-5518	165-10	12 @ 7.5	Female Plug	15.99	11.40
713-5520	165-11	12 @ 7.5	Male Recept.	13.73	6.52
713-5523	165-12	12 @ 7.5	Female Recept.	12.69	9.05

LARGE SHELL—24 No. 20 CONTACTS

713-5550	165-25	24 @ 7.5	Male Plug	21.86	15.56
713-5559	165-28	24 @ 7.5	Female Recept.	18.77	13.13

See Page 2 for the Allied Electronics Facility Nearest You

MS Receptacles and Mating Plugs



EXPLANATION OF SERIES NUMBERS:

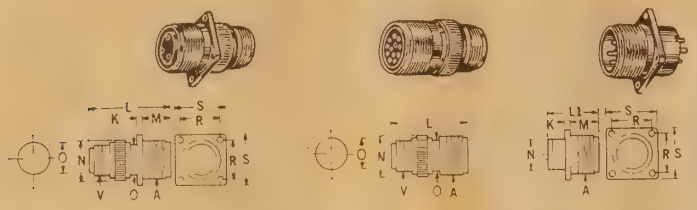
For example, 3102A-18-11P—"A" stands for solid shell ("B" split shell), "18" indicates shell size in 16ths of 1"; "P"—pin; "S"—socket type. Mates for 3100A, 3101A and 3102A are directly opposite on facing column. Require cable clamp (in this section) except 3102A. Contacts are silver plated and solder cups tinned. Aluminum shells with cadmium plate and O.D. conversion. All meet **MIL-C-5015D.**

HOW TO ORDER

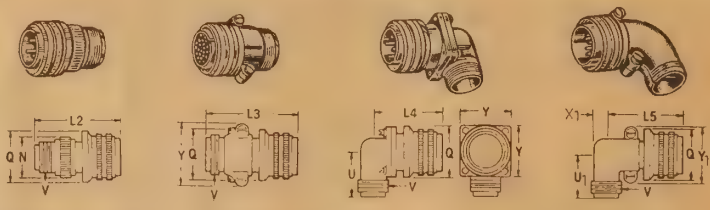
Select desired receptacle or mating plug on this or next page, then shell style. Paired-off listing shows mating plugs and receptacles on the same line. Specify Stock Number, then add connector Type Number. For example: 605-1001 (Stock No.)—3100A-10S-2P (Type No.).

PLEASE NOTE: the following represents only a partial listing of the entire connector line which maintains in depth. Depend on Allied for all your components needs.

MATING PLUGS



RECEPTACLES



DIMENSIONS TABLE

Connector Size	A Coup. Threads	K	L	L_1 MS 3102A	L_2 3106A	L_3 3106B	L_4 3108A	L_5 3108B	M	N	O MS 3100A	Q	R	S	U 3108A	U_1 3108B	Y	X_1 3108B	Y_1 3108B	Fitting Th.
10S	⅝-24	5/64	1 5/16	27/32	1 5/16	—	1 1/4	1 3/8	9/16	5/8	.688	1/8	23/32	1	7/8	7/8	25/32	—	—	½-28
10SL	⅝-24	5/64	1 9/32	27/32	1 3/8	—	1 5/16	1 1/2	9/16	5/8	.812	1/8	23/32	1	1	1	1 1/16	–	—	⅝-24
12S	¾-20	5/64	1 15/32	61/64	1 1/16	—	1 3/8	1 9/16	9/16	25/32	.812	1	13/16	1 3/32	1	1	1 1/16	½	—	⅝-24
12SL	¾-20	5/64	—	27/32	1 31/64	—	1 13/64	—	—	—	—	1	—	—	1	1 1/16	1 1/16	—	—	¾-20
14S	⅞-20	5/64	1 7/16	15/16	1 7/16	1 11/16	1 3/8	1 23/32	9/16	7/8	.938	1 1/8	29/32	1 3/16	1	1 1/16	1 1/16	21/32	—	¾-20
16S	1 -20	5/64	1 31/64	15/16	1 29/64	1 11/16	1½	1¾	9/16	1	1.062	1¼	31/32	1 9/32	1⅛	1⅛	1 3/16	—	1½	⅞-20
16	1 -20	1/8	1 57/64	1 11/32	1 57/64	—	1 15/16	2⅛	¾	1	1.062	1¼	31/32	1 9/32	1⅛	1⅛	1 5/16	—	1½	⅞-20
18	1⅛-18	1/8	2	1 11/32	2	2 1/16	1 15/16	2 13/32	¾	1⅛	1.188	1 1/16	1 1/16	1⅜	1⅛	1 3/16	1 5/16	—	1 41/64	1 -20
20	1¼-18	1/8	2⅛	1 11/32	2⅛	2⅛	2 1/16	2 5/32	¾	1¼	1.312	1 15/32	1 5/32	1½	1 5/16	1 5/16	1⅜	—	1 13/16	1⅜-18
22	1⅜-18	1/8	2⅜	1 11/32	2⅛	2⅛	2 1/16	2 13/32	¾	1⅜	1.438	1 19/32	1¼	1⅝	1 5/16	1 5/16	1⅝	—	1 15/16	1 13/16-18
24	1½-18	1/8	2¼	1 11/32	2¼	2 9/32	2 15/32	2⅝	13/16	1½	1.562	1 23/32	1⅜	1¾	1½	1 7/16	2	—	2 1/16	1 7/16-18
28	1¾-18	1/8	2¼	1 11/32	2¼	2 9/32	2 15/32	2⅝	13/16	1¾	1.812	1 31/32	1 9/16	2	1½	1 7/16	2	—	2 5/16	1 7/16-18
32	2 -18	1/8	2⅜	1 7/16	2⅜	2 5/8	2 1/16	2 13/16	⅞	2 1/32	2.062	2 1/32	1¾	2¼	1 25/32	1¾	2½	—	2 9/32	1¾ -18
36	2¼-16	1/8	2⅜	1 7/16	2⅜	2 11/32	2 1/16	2 27/32	⅞	2¼	2.312	2 15/32	1 15/16	2½	1 25/32	1 15/16	2½	—	2 27/32	2 -18

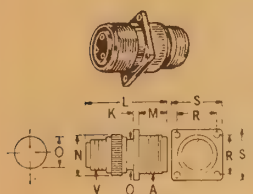
MS Receptacles and Mating Plugs Charts

SHELL STYLE INSERT	MS3100A Stock No.	MS3100A EACH 1-24	MS3101A Stock No.	MS3101A EACH 1-24	MS3102A Stock No.	MS3102A EACH 1-24	SHELL STYLE INSERT	Series 3106A Stock No.	Series 3106A EACH 1-24	Series 3106B Stock No.	Series 3106B EACH 1-24	Series 3108A Stock No.	Series 3108A EACH 1-24	Series 3108B Stock No.	Series 3108B EACH 1-24
10S-2P	605-1001	6.55	605-2001	5.35	605-3001	2.47	10S-2S	605-4001	5.77	.....	.....	.....	.....	.....	4.60
10S-2S	605-1002	6.70	605-2002	5.47	605-3002	2.57	10S-2P	605-4002	5.75	.....	.....	.....	.....	.....	.....
10SL-3P	605-1003	4.10	605-2003	6.20	605-3003	3.22	10SL-3S	605-4003	5.02	.....	.....	605-6003	8.85	605-7001	4.52
10SL-4P	605-1004	4.07	605-2004	5.80	605-3004	3.22	10SL-4S	605R4004	4.87	.....	.....	.....	.....	605-7002	5.72
12S-4P	605-1005	4.60	605-2005	5.47	605-3005	2.60	12S-4S	605-4005	4.42	.....	.....	.....	.....	605-7003	.....
12S-4S	605-1006	4.60	605-2006	5.47	605-3006	2.60	12S-4P	605-4006	4.42	.....	.....	.....	.....	605-7004	5.72
12SL-844P	.....	.....	.....	.....	605-3007	5.77	12SL-844S	605-4007	10.75	.....	.....	605-6007	13.38	.....	.....
14S-1P	605-1007	4.20	605-2007	5.17	605-3008	2.82	14S-1S	605-4008	4.37	605-5001	5.17	605-6008	8.87	605-7005	4.87
14S-1S	605-1008	4.37	605-2008	5.30	605-3009	2.85	14S-1P	605-4009	4.20	605-5002	5.15	605-6009	8.85	605-7006	4.77
14S-2P	605-1009	4.70	605-2009	5.15	605-3010	2.80	14S-2S	605-4010	4.52	605-5003	5.42	605-6010	9.05	605-7007	5.10
14S-2S	605-1010	5.07	605-2010	5.45	605-3011	3.02	14S-2P	605-4011	4.17	605-5004	5.12	605-6011	8.82	605-7008	4.72
14S-5P	605-1011	4.70	605-2011	5.62	605-3012	3.15	14S-5S	605-4012	4.87	605-5005	5.80	605-6012	9.47	605-7009	5.32
14S-5S	605-1012	4.87	605-2012	5.82	605-3013	3.42	14S-5P	605-4013	4.70	605-5006	5.52	605-6013	9.22	605-7010	5.15
14S-6P	605-1013	4.87	605-2013	5.82	605-3014	3.42	14S-6S	605-4014	4.95	605-5007	5.85	605-6014	9.52	605-7011	5.45
14S-6S	605-1014	4.95	605-2014	5.97	605-3015	3.47	14S-6P	605-4015	4.87	605-5008	5.80	605-6015	9.47	605-7012	5.32
14S-7P	605-1015	4.20	605-2015	5.17	605-3016	2.82	14S-7S	605-4016	4.37	605-5009	5.17	605-6016	8.87	605-7013	4.87
14S-7S	605-1016	4.37	605-2016	5.30	605-3017	2.85	14S-7P	605-4017	4.20	605-5010	5.15	605-6017	8.85	605-7014	4.77
14S-9P	605-1017	4.05	605-2017	4.95	605-3018	2.50	14S-9S	605-4018	4.07	605-5011	4.95	605-6018	8.67	605-7015	4.67
14S-9S	605-1018	4.07	605-2018	5.10	605-3019	2.55	14S-9P	605-4019	4.05	605-5012	4.92	605-6019	8.65	605-7016	4.52
16-9P	605-1019	6.72	605-2019	6.90	605-3020	4.07	16-9S	605-4020	7.15	.....	.....	.....	.....	.....	.....
16-9S	605-1020	7.47	605-2020	7.80	605-3021	5.02	19-9P	605-4021	6.35	.....	.....	.....	.....	.....	.....
16-10P	605-1021	5.82	605-2021	6.00	605-3022	3.47	16-10S	605-4022	6.17	.....	.....	.....	.....	.....	.....
16-10S	605-1022	6.47	605-2022	6.65	605-3023	4.10	16-10P	605-4023	5.45	.....	.....	.....	.....	.....	.....
16-11P	605-1023	6.07	605-2023	6.30	605-3024	3.47	16-11S	605-4024	6.52	.....	.....	.....	.....	.....	.....
16-11S	605-1024	6.77	605-2024	7.05	605-3025	4.27	16-11P	605-4025	5.75	.....	.....	.....	.....	.....	.....
16S-1P	605-1025	5.42	605-2025	5.85	605-3026	3.45	16S-1S	605-4026	5.42	605-5013	6.70	605-6026	11.92	605-7023	6.37
16S-1S	605-1026	6.00	605-2026	6.40	605-3027	4.00	16S-1P	605-4027	4.87	605-5014	6.22	605-6027	11.40	605-7024	5.82
16S-4P	605-1027	5.35	605-2027	5.80	605-3028	3.17	16S-4S	605-4028	5.02	605-5015	6.52	605-6028	12.27	605-7025	5.97
16S-4S	605-1028	5.52	605-2028	6.07	605-3029	3.30	16S-4P	605-4029	4.70	605-5016	6.30	605-6029	12.02	605-7026	5.77
16S-5P	605-1029	5.12	605-2029	5.52	605-3030	3.10	16S-5S	605-4030	4.70	605-5017	6.02	605-6030	11.15	605-7027	5.62
16S-5S	605-1030	5.17	605-2030	5.67	605-3031	3.30	16S-5P	605-4031	4.52	605-5018	5.97	605-6031	11.05	605-7028	5.45
16S-8P	605-1031	5.30	605-2031	5.80	605-3032	3.37	16S-8P	605-4032	4.92	605-5019	6.30	605-6032	11.42	605-7029	5.67
16S-8S	605-1032	5.45	605-2032	5.97	605-3033	3.47	16S-8S	605-4033	4.72	605-5020	6.05	605-6033	11.17	605-7030	5.85
18-1P	605-1033	6.67	605-2033	7.52	605-3034	4.67	18-1S	605-4034	7.05	605-5021	8.22	605-6034	13.60	605-7031	8.52
18-1S	605-1034	7.30	605-2034	8.15	605-3035	5.15	18-1P	605-4035	6.40	605-5022	7.67	605-6035	13.02	605-7032	7.90
18-3P	605-1035	5.97	605-2035	6.90	605-3036	3.20	18-3S	605-4036	7.05	605-5023	8.42	605-6036	14.45	605-7033	8.77
18-3S	605-1036	7.40	605-2036	8.35	605-3037	5.05	18-3P	605-4037	5.72	605-5024	7.05	605-6037	13.02	605-7034	7.40
18-4P	605-1037	5.42	605-2037	6.22	605-3038	3.37	18-4S	605-4038	5.52	605-5025	6.70	605-6038	12.20	605-7035	7.10
18-4S	605-1038	5.85	605-2038	6.65	605-3039	3.67	18-4P	605-4039	5.12	605-5026	6.37	605-6039	11.67	605-7036	6.65
18-8P	605-1041	6.67	605-2041	7.52	605-3042	4.67	18-8S	605-4042	6.87	605-5029	8.15	605-6042	13.52	605-7039	8.42
18-8S	605-1042	7.15	605-2042	7.90	605-3043	5.10	18-8P	605-4043	6.40	605-5030	7.67	605-6043	13.02	605-7040	7.90
18-9P	605-1043	7.12	605-2043	8.02	605-3044	4.70	18-9S	605-4044	7.32	605-5031	8.75	605-6044	14.77	605-7041	9.12
18-9S	605-1044	7.72	605-2044	8.51	605-3045	5.30	18-9P	605-4045	6.75	605-5032	8.15	605-6045	14.15	605-7042	8.52
18-10P	605-1045	6.47	605-2045	7.30	605-3046	4.37	18-10S	605-4046	6.87	605-5033	8.15	605-6046	13.52	605-7043	8.42
18-10S	605-1046	7.15	605-2046	7.90	605-3047	5.10	18-10P	605-4047	6.17	605-5034	7.45	605-6047	12.80	605-7044	7.70
18-11P	605-1047	6.47	605-2047	7.30	605-3048	4.37	18-11S	605-4048	6.40	605-5035	7.67	605-6048	13.02	605-7045	7.90
18-11S	605-1048	6.63	605-2048	7.52	605-3049	4.67	18-11P	605-4049	6.17	605-5036	7.45	605-6049	12.80	605-7046	7.70
18-12P	605-1049	6.02	605-2049	6.87	605-3050	3.95	18-12S	605-4050	6.17	605-5037	7.45	605-6050	12.80	605-7047	7.70
18-12S	605-1050	6.47	605-2050	7.30	605-3051	4.37	18-12P	605-4051	5.80	605-5038	7.05	605-6051	12.35	605-7048	7.30
18-16P	605-1051	6.55	605-2051	7.45	605-3052	4.10	18-16S	605-4052	7.32	605-5039	8.75	605-6052	14.77	605-7049	9.12
18-16S	605-1052	7.72	605-2052	8.57	605-3053	5.30	18-16P	605-4053	6.20	605-5040	7.50	605-6053	13.65	605-7050	7.97
18-19P	605-1053	9.05	605-2053	9.92	605-3054	7.05	18-19S	605-4054	7.10	605-5041	8.40	605-6054	13.72	605-7051	8.67
18-19S	605-1054	7.45	605-2054	8.17	605-3055	5.30	18-19P	605-4055	8.82	605-5042	10.02	605-6055	14.25	605-7052	10.35

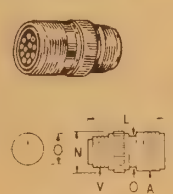
MS Receptacles and Mating Plugs

ORDERING INFORMATION: Select the desired receptacle or mating plug on this or the preceding page, then shell style. Pair-off listing shows mating plugs and receptacles on the same line. Specify Stock Number, then add Connector Type Number. For example: 605-1001 (Stock Number)—3100A-1OS-2P (Type Number). Also, see the preceding page for Dimensions table.

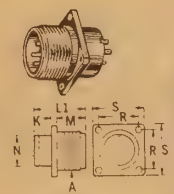
RECEPTACLES



MS3100A

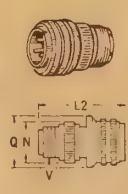


MS3101A

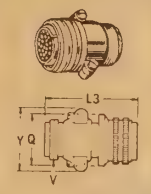


MS3102A

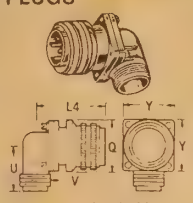
MATING PLUGS



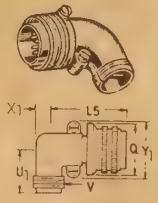
Series 3106A



Series 3106B



Series 3108A



Series 3108B

SEE PRECEDING PAGE FOR DIMENSION TABLE

RECEPTACLES (Continued)

SHELL STYLE INSERT	MS3100A Stock No.	MS3100A EACH 1-24	MS3101A Stock No.	MS3101A EACH 1-24	MS3102A Stock No.	MS3102A EACH 1-24
20-4P	605-1055	6.70	605-2055	7.22	605-3056	4.20
20-4S	605-1056	7.70	605-2056	8.20	605-3057	5.17
20-7P	605-1057	6.70	605-2057	7.22	605-3058	4.20
20-7S	605-1058	7.37	605-2058	7.80	605-3059	4.87
20-15P	605-1061	7.47	605-2061	7.87	605-3062	4.95
20-15S	605-1062	10.12	605-2062	10.60	605-3063	7.67
20-16P	605-1063	7.52	605-2063	7.90	605-3064	5.10
20-16S	605-1064	8.02	605-2064	8.45	605-3065	5.52
20-22P	605-1071	9.67	605-2071	10.10	605-3072	6.77
20-22S	605-1072	11.35	605-2072	11.87	605-3073	8.57
20-23P	605-1073	8.10	605-2073	8.57	605-3074	5.30
20-23S	605-1074	8.82	605-2074	9.40	605-3075	6.07
20-27P	605-1075	7.70	605-2075	8.20	605-3076	5.17
20-27S	605-1076	8.45	605-2076	8.87	605-3077	6.00
20-29P	605-1077	8.40	605-2077	8.82	605-3078	5.85
20-29S	605-1078	9.30	605-2078	9.70	605-3079	6.70
20-33P	605-1079	9.35	605-2079	9.82	605-3080	6.52
20-33S	605-1080	9.55	605-2080	10.05	605-3081	6.75
22-2P	605-1081	9.17	605-2081	9.55	605-3082	5.80
22-2S	605-1082	11.15	605-2082	11.57	605-3083	7.90
22-5P	605-1085	8.82	605-2085	9.35	605-3086	5.52
22-5S	605-1086	8.85	605-2086	9.40	605-3087	5.72
22-9P	605-1087	7.87	605-2087	8.25	605-3088	4.52
22-9S	605-1088	9.92	605-2088	10.40	605-3089	6.72
22-10P	605-1089	7.87	605-2089	8.25	605-3090	4.52
22-10S	605-1090	8.15	605-2090	8.57	605-3091	4.87
22-14P	605-1091	9.40	605-2091	9.70	605-3092	6.40
22-14S	605-1092	10.72	605-2092	11.12	605-3093	7.80
22-18P	605-1093	8.75	605-2093	9.17	605-3094	5.47
22-18S	605-1094	8.83	605-2094	9.35	605-3095	5.52
22-19P	605-1095	9.22	605-2095	9.57	605-3096	6.30
22-19S	605-1096	9.40	605-2096	9.70	605-3097	6.40
22-23P	605-1099	10.10	605-2099	10.60	605-3100	6.77
22-23S	605-1100	12.95	605-2100	13.42	605-3101	9.72
24-2P	605-1103	9.50	605-2103	9.52	605-3104	6.02
24-2S	605-1104	11.45	605-2104	11.50	605-3105	8.02
24-5P	605-1105	11.80	605-2105	11.87	605-3106	7.97
24-5S	605-1106	13.30	605-2106	13.37	605-3107	9.42
24-20P	605-1115	11.07	605-2115	11.10	605-3116	7.12
24-20S	605-1116	11.12	605-2116	11.15	605-3117	7.27
24-28P	605-1119	11.50	605-2119	11.57	605-3120	8.15
24-28S	605-1120	13.02	605-2120	13.10	605-3121	9.57
28-2P	605-1123	12.10	605-2123	13.42	605-3124	8.42
28-2S	605-1124	12.87	605-2124	14.17	605-3125	8.35
28-9P	605-1125	12.80	605-2125	14.10	605-3126	9.17
28-9S	605-1126	14.02	605-2126	12.63	605-3127	10.35
28-11P	605-1127	12.22	605-2127	13.42	605-3128	8.97
28-11S	605-1128	14.85	605-2128	14.80	605-3129	11.57
28-12P	605-1129	12.67	605-2129	13.85	605-3130	9.50
28-12S	605-1130	14.85	605-2130	14.80	605-3131	11.57
28-15P	605-1131	14.22	605-2131	14.33	605-3132	11.05
28-15S	605-1132	14.03	605-2132	11.79	605-3133	13.20
28-16P	605-1133	12.57	605-2133	13.80	605-3134	9.40
28-16S	605-1134	12.67	605-2134	13.85	605-3135	9.50
28-18P	605-1137	11.57	605-2137	12.87	605-3138	7.90
28-18S	605-1138	12.55	605-2138	14.02	605-3139	9.00
28-19P	605-1139	11.75	605-2139	13.02	605-3140	8.10
28-19S	605-1140	14.17	605-2140	12.83	605-3141	10.65
28-21P	605-1143	14.72	605-2143	14.75	605-3144	11.45
28-21S	605-1144	14.20	605-2144	11.94	605-3145	13.52
36-10P	605-1147	14.14	605-2147	14.95	605-3148	14.73
36-10S	605-1148	15.26	605-2148	15.60	605-3149	14.95

All MS Connectors except the 3102 Series require clamp. See page 87

MATING PLUGS (Continued)

SHELL STYLE INSERT	Series 3106A Stock No.	Series 3106A EACH 1-24	Series 3106B Stock No.	Series 3106B EACH 1-24	Series 3108A Stock No.	Series 3108A EACH 1-24	Series 3108B Stock No.	Series 3108B EACH 1-24
20-4S	605-4056	8.42	605-5043	9.40	605-6056	14.10	605-7053	9.87
20-4P	605-4057	7.47	605-5044	8.42	605-6057	14.22	605-7054	8.85
20-7S	605-4058	8.02	605-5045	8.97	605-6058	14.85	605-7055	9.47
20-7P	605-4059	7.47	605-5046	8.42	605-6059	14.22	605-7056	8.85
20-15S	605-4062	10.82	605-5049	11.80	605-6062	11.79	605-7059	12.22
20-15P	605-4063	8.20	605-5050	9.05	605-6063	14.92	605-7060	9.52
20-16S	605-4064	8.77	605-5051	9.65	605-6064	14.35	605-7061	10.07
20-16P	605-4065	8.22	605-5052	9.10	605-6065	13.93	605-7062	9.57
20-22S	605-4072	12.12	605-5059	13.20	605-6072	13.21	605-7069	13.70
20-22P	605-4073	10.35	605-5060	11.37	605-6073	14.90	605-7070	12.00
20-23S	605-4074	9.67	605-5061	10.67	605-6074	14.25	605-7071	11.15
20-23P	605-4075	8.82	605-5062	9.90	605-6075	13.63	605-7072	10.40
20-27S	605-4076	9.10	605-5063	10.07	605-6076	14.78	605-7073	10.52
20-27P	605-4077	8.42	605-5064	9.40	605-6077	14.10	605-7074	9.87
20-29S	605-4078	9.97	605-5065	10.95	605-6078	14.33	605-7075	11.40
20-29P	605-4079	9.02	605-5066	9.97	605-6079	14.73	605-7076	10.40
20-33S	605-4080	10.35	605-5067	11.35	605-6080	14.80	605-7077	11.87
20-33P	605-4081	10.05	605-5068	11.12	605-6081	14.68	605-7078	11.57
22-2S	605-4082	11.15	605-5069	12.50	605-6082	14.90	605-7079	13.07
22-2P	605-4083	9.17	605-5070	10.52	605-6083	14.53	605-7080	11.12
22-5S	605-4086	8.85	605-5073	10.17	605-6086	14.33	605-7083	10.85
22-5P	605-4087	8.82	605-5074	10.12	605-6087	14.25	605-7084	10.80
22-9S	605-4088	9.92	605-5075	11.27	605-6088	14.00	605-7085	12.00
22-9P	605-4089	7.87	605-5076	9.17	605-6089	13.38	605-7086	9.82
22-10S	605-4090	8.15	605-5077	9.47	605-6090	13.73	605-7087	10.10
22-10P	605-4091	7.87	605-5078	9.17	605-6091	13.38	605-7088	9.82
22-14S	605-4092	10.72	605-5079	11.92	605-6092	12.17	605-7089	12.50
22-14P	605-4093	9.40	605-5080	10.52	605-6093	14.40	605-7090	11.12
22-18S	605-4094	8.82	605-5081	10.12	605-6094	14.25	605-7091	10.80
22-18P	605-4095	8.75	605-5082	10.05	605-6095	14.18	605-7092	10.67
22-19S	605-4096	9.40	605-5083	10.52	605-6096	14.40	605-7093	11.12
22-19P	605-4097	9.22	605-5084	10.40	605-6097	14.20	605-7094	11.02
22-23S	605-4100	12.95	605-5087	14.32	605-6100	14.25	605-7097	12.40
22-23P	605-4101	10.10	605-5088	11.37	605-6101	14.13	605-7098	12.10
24-2S	605-4104	11.60	605-5091	13.80	605-6104	13.14	605-7101	12.67
24-2P	605-4105	9.65	605-5092	11.80	605-6105	11.82	605-7102	10.72
24-5S	605-4106	13.50	605-5093	13.10	605-6106	15.03	605-7103	14.86
24-5P	605-4107	12.02	605-5094	14.40	605-6107	14.06	605-7104	13.20
24-20S	605-4116	11.27	605-5103	13.70	605-6116	13.59	605-7113	12.50
24-20P	605-4117	11.15	605-5104	13.57	605-6117	13.46	605-7114	12.37
24-28S	605-4120	13.20	605-5107	14.20	605-6120	14.25	605-7117	14.22
24-28P	605-4121	11.67	605-5108	13.72	605-6121	13.23	605-7118	12.80
28-2S	605-4124	13.42	605-5111	14.65	605-6124	14.96	605-7121	14.80
28-2P	605-4125	12.55	605-5112	13.82	605-6125	14.35	605-7122	14.02
28-9S	605-4126	14.45	605-5113	13.00	605-6126	15.63	605-7123	13.10
28-9P	605-4127	13.30	605-5114	14.55	605-6127	14.85	605-7124	14.65
28-11S	605-4128	14.18	605-5115	14.00	605-6128	15.58	605-7125	14.13
28-11P	605-4129	12.62	605-5116	13.80	605-6129	13.81	605-7126	13.85
28-12S	605-4130	14.18	605-5117	14.00	605-6130	15.58	605-7127	14.13
28-12P	605-4131	13.17	605-5118	14.22	605-6131	14.12	605-7128	14.42
28-15S	605-4132	14.50	605-5119	12.00	605-6132	16.63	605-7129	12.14
28-15P	605-4133	14.72	605-5120	14.73	605-6133	15.15	605-7130	14.78
28-16S	605-4134	13.17	605-5121	14.22	605-6134	14.12	605-7131	14.42
28-26P	605-4135	13.02	605-5122	14.15	605-6135	14.01	605-7132	14.22
28-18S	605-4138	13.07	605-5125	14.40	605-6138	14.71	605-7135	14.55
28-18P	605-4139	12.10	605-5126	13.37	605-6139	14.06	605-7136	13.50
28-19S	605-4140	14.77	605-5127	13.18	605-6140	15.81	605-7137	13.35
28-19P	605-4141	12.27	605-5128	13.50	605-6141	14.18	605-7138	13.65
28-21S	605-4144	14.63	605-5131	12.21	605-6144	16.75	605-7141	12.31
28-21P	605-4145	14.03	605-5132	13.85	605-6145	17.15	605-7142	14.00
36-10S	605-4148	16.68	605-5135	16.98	605-6148	23.40	605-7145	17.75
36-10P	605-4149	15.53	605-5136	15.81	605-6149	22.29	605-7146	16.63

DISCOUNT SCHEDULE FOR MS CONNECTORS

On Items Under $12.00 Each	**25-49.....Less 20%**	**50-99.....Less 40%**	**100-Up.....Less 58%**
On Items Over $12.00 Each	**25-49.....Less 20%**	**50-99.....Less 30%**	**100-Up.....Less 37%**

See Next Page For MS Connector Insert Arrangements

MS Connector Insert Arrangements

CODE OF WIRE SIZES



FRONT VIEW OF POSITIONS



Contact sizes correspond in number coding to wire sizes.

COMPLETE LINE AVAILABLE AT ALLIED. The entire MS product line is stocked as components. Any combination of shell, insert, boot, clamp, etc., can be quickly assembled, packaged and shipped.

CURRENT RATINGS

CONTACT SIZE	20	16	12	8	4	0
AMPERES	10	22	41	73	135	245

SERVICE RATINGS

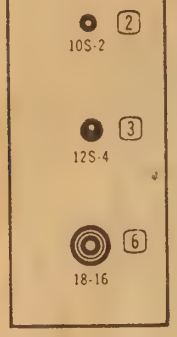
SERVICE	1	2	3	4	6
Max. Operating DC	250	700	1250	1750	4200
Sea Level Volts AC (rms)	200	500	900	1250	3000

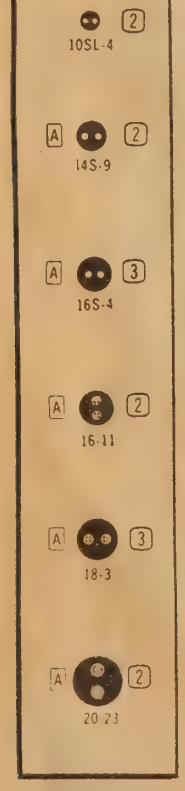
ALTERNATE INSERT POSITIONS AVAILABLE

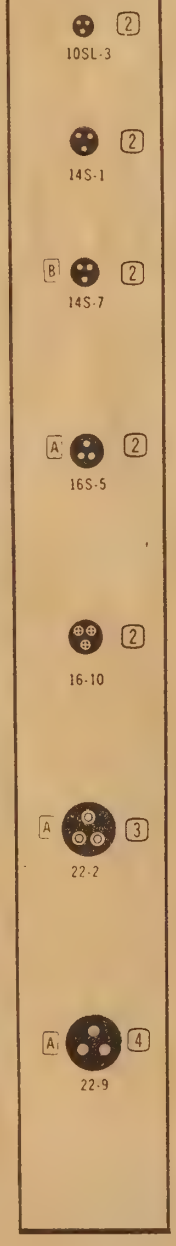
- A W, X, Y or Z
- B W, X or Y
- D W, Y or Z
- E X
- F W or Z
- G W or Y

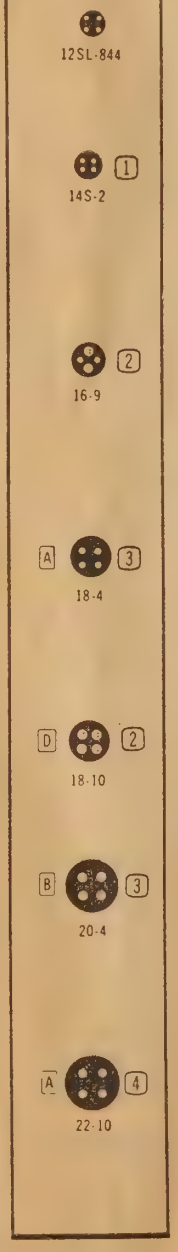
CONNECTOR SIZE — O.D. OF RECEPTACLE COUPLING THREADS

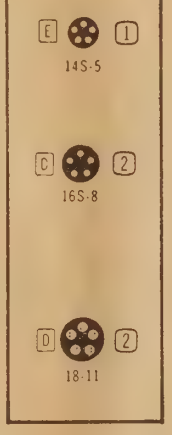
Conn. Size	O.D. In.	O.D. mm	Conn. Size	O.D. In.	O.D. mm	Conn. Size	O.D. In.	O.D. mm	Conn. Size	O.D. In.	O.D. mm
10S	5/8	15.87	14S	7/8	22.22	18	1 1/8	28.57	24	1 1/2	38.10
10SL	5/8	15.87	16S	1	25.40	20	1 1/4	31.75	28	1 3/4	44.45
12S	3/4	19.05	16	1	25.40	22	1 3/8	34.92	36	2 1/4	57.15

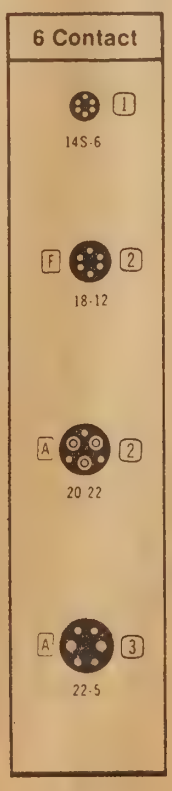
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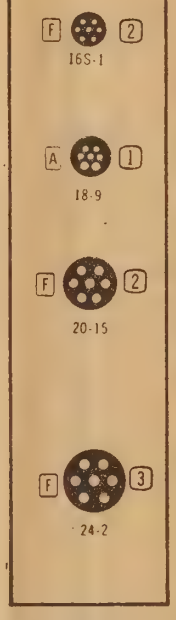
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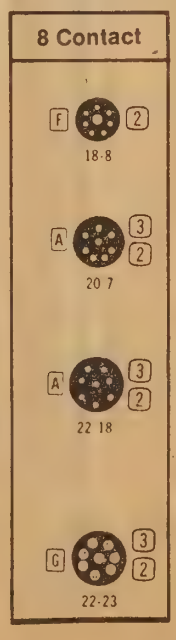
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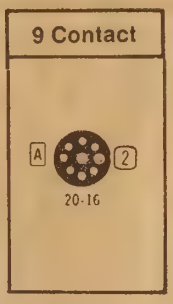
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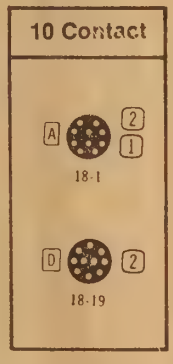
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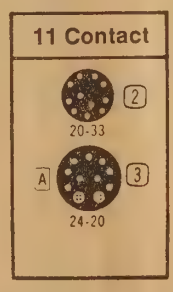
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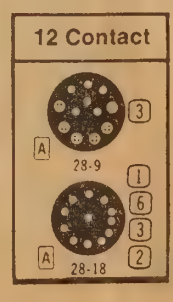
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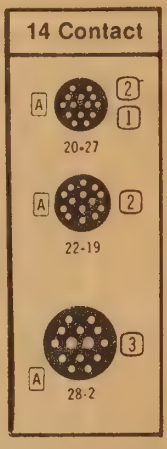
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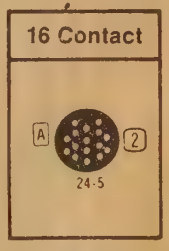
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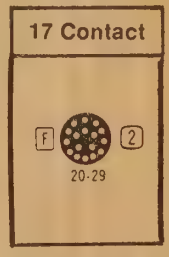
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11 Contact


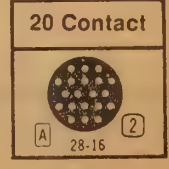
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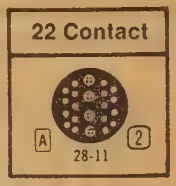
14 Contact


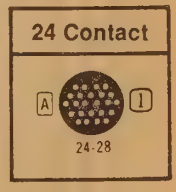
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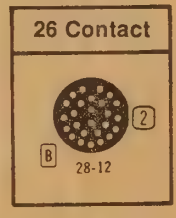
17 Contact


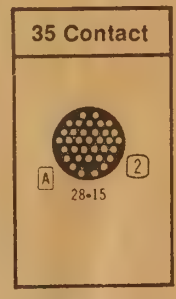
19 Contact

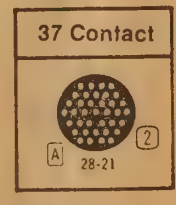

20 Contact


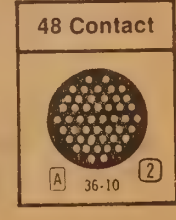
22 Contact


24 Contact


26 Contact


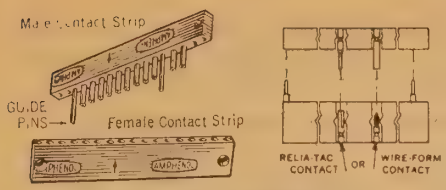
35 Contact


37 Contact


48 Contact


See Preceding Pages For MS Connector Listings

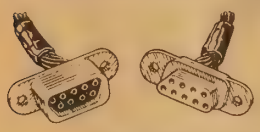
Rack, Panel, Strip, Sub-Mini and PC Board Connectors

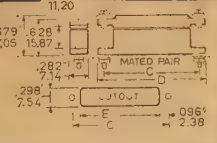


221 MICRO-MINIATURE STRIP CONNECTORS WITH .100″ CENTERS

Use full length as is, or cut to specific length. Two or more strips can be stacked or epoxied together for multirow connector. When stacked, contact centers are .100″ for both connectors. Use guide pins at least every 3″ for mating alignment and keying. Guide pins replace both pin and socket contact. **Supplied less contacts and guide pins; listed below.** Spacing .100″ except *.075″. Av. wt. 1 oz. Use "Relia-Tac" contacts.

Stock No.	Mfr's. Type	Con-tacts	Des-cription	EACH 1-9	10-49	50-99	100-Up
713-5860	221-1560	60	6″ Plug	1.63	1.09	.79	.74
713R5861	221-1660	60	6″ Recept.	1.35	.91	.75	.62
713-5862	221-2553	53*	4″ Plug	1.38	.96	.78	.63
713-5864	221-2653	53*	4″ Recept.	1.25	.82	.61	.57





RACK AND PANEL SERIES 223 "TINY TIM" WITH .100″ CENTERS

For circuit modules, potted-in or surface mtg.; micro-miniature cable-to-cable use. **Meet MIL-C-8384B.** Contact spacing, .100″ ctrs. Screwmtg. **Less contacts.** Use "Relia-Tac" contacts.

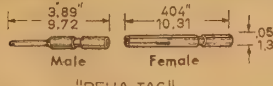
Stock No.	Mfr's Type	Con-tacts	Descrip-tion	Mtg. Ctrs. In.	EACH 1-9	10-49	50-Up
713-5950	223-1505	5	Plug	.593	1.23	.68	.55
713-5955	223-1605	5	Recept.	.593	1.23	.68	.55
713-5951	223-1509	9	Plug	.793	1.28	.71	.60
713-5956	223-1609	9	Recept.	.793	1.28	.71	.60
713-5952	223-1517	17	Plug	1.193	1.33	.79	.64
713-5957	223-1617	17	Recept.	1.193	1.33	.79	.64

"RELIA-TAC" CONTACT TOOLS

Hand crimping tool, adjustable 4-indent miniature to **MIL-T-22520.** Requires contact locator bushing for specific contact used. Tool handle requires insertion bit or correct removal bit to accommodate desired contact. See Table below. Av. shpg. wt. 12 oz.

Stock No.	Mfr's Type	Description	For Contact	EACH 1-4	5-Up
713-8105	357-100	Hand Crimp T1	.....	171.21	136.97
713-8113	357-300-1	Contact Locator	220-S01/ S02/P01	33.85	26.68
713-8005	356-200	Tool Hdle. Only	.....	11.18	7.60
713-8017	356-400-11	Insertion Bit	ALL	16.90	11.50
713-8020	356-400-14	Removal Bit	220-S02	13.85	6.30

INDIVIDUAL "RELIA-TAC" CONTACTS

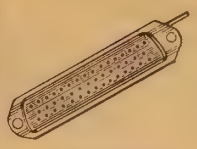


"RELIA TAC"

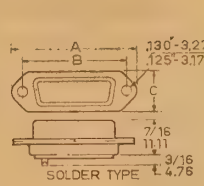
Rated 3 amps and types take 22, 24, 26 solid wire; 24, 26 stranded wire. Relia-Tac also takes 28 solid wire. Relia-Tac gold-over-nickel on copper alloy body; male, .389 x .050″; female, .404 x .050″. Guide pins will fit either type. Av. shpg. wt. per pkg. 1 oz. **Sold in pkgs. of 100.**

Stock No.	Mfr's. Type	Description	PRICE PER PKG. OF 100 1-9	10-24	25-49	50-Up
713R5802	220-P02	Relia-Tac Male	10.00	8.00	6.45	5.12
713R5805	220-S02	Relia-Tac Fem	18.30	17.88	16.54	14.56

Type 221-535 Universal Guide Pins.
713-5853. 1-49 ..... Each .44 50-Up ..... Each .19



MINIATURE CONNECTORS



- **Feature Poke-Home Contacts for Fast Installation**
- **5-Amp Contacts Gold-over-Silver Plated**

Miniature rack and panel connectors with "Poke-Home" contacts for easy and fast installations. All contacts are gold-over-silver plated. Cadmium-plated steel shells. Current rating: 5 amperes from 0° to +230°F. All necessary tools and equipment for crimping and insertion of contacts below. *Solder receptacles. †Solder plugs. ‡Cable clamp accessories. Average shipping weight 2 ounces. Be sure to specify manufacturer's type number when ordering.

DIMENSIONS

Connector Size	A Max.	B	C Max.
9	1.239	.984	.515
15	1.567	1.312	.515
25	2.114	1.852	.515
50	2.661	2.406	.626

Stock No.	Mfr's Type	Con-tacts	EACH 1-9	10-24	25-Up
713-0214	17-10090*	9	3.12	1.95	1.71
713-0218	17-10150*	15	4.45	2.77	2.42
713-0221	17-10250*	25	6.73	4.18	3.64
713-0227	17-10500*	50	12.15	7.58	6.60
713-0230	17-20090†	9	2.27	1.44	1.25
713-0232	17-20150†	15	3.12	1.94	1.70
713-0234	17-20250†	25	4.38	2.84	2.47
713-0238	17-20500†	50	7.72	4.83	4.20
713-0202	17-310-01‡	9	2.05	1.08	1.01
713-0204	17-311-01‡	15	2.30	1.41	1.23
713-0206	17-312-01‡	25	2.35	1.47	1.28

SERIES "D" SUBMINIATURE CONNECTORS



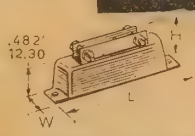
Pin/socket insert, gold-plated copper alloy contacts, cadmium-plated steel shells. Take #20 stranded wire, rated 5 amps. Ins. res.: over 5000 megs, per **MIL-STD-202A, Method 302.** *Digits show No. of contacts; suffix "P", male conn.; "S", female. **Original "D"**; 2-piece Nylon inserts, Av. wt. 2 oz.

Connector	L±.015	W±.015	H±.010
9P/9S	1.213	.494	.422/.429
15P/15S	1.541	.494	.422/.429
25P/25S	2.088	.494	.426/.429
37P/37S	2.729	.494	.426/.429
50P/50S	2.635	.605	.426/.429

ORIGINAL "D"

Stock No.	*Mfr's Type	Flange Size In.	EACH 1-9	10-49	50-99	100-Up
750-0120	DE-9P	$1^{13}/_{64}X^{31}/_{64}$	2.33	1.46	1.25	1.07
750-0121	DE-9S	$1^{13}/_{64}X^{31}/_{64}$	3.20	2.10	1.75	1.47
750R0020	DA-15P	$1^{17}/_{32}X^{31}/_{64}$	3.18	2.08	1.74	1.50
750-0021	DA-15S	$1^{17}/_{32}X^{31}/_{64}$	4.73	3.06	2.57	2.22
750R0050	DB-25P	$2^{5}/_{64}X^{31}/_{64}$	4.68	3.11	2.58	2.15
750R0051	DB-25S	$2^{5}/_{64}X^{31}/_{64}$	7.45	4.71	3.94	3.40
750-0082	DC-37P	$2^{23}/_{32}X^{31}/_{64}$	6.38	4.09	3.42	2.91
750-0083	DC-37S	$2^{23}/_{32}X^{31}/_{64}$	10.45	6.67	5.61	4.79
750-0100	DD-50P	$2^{5}/_{8}X^{39}/_{64}$	8.33	5.33	4.46	3.81
750-0101	DD-50S	$2^{5}/_{8}X^{63}/_{64}$	13.75	8.79	7.41	6.63

JUNCTION SHELLS



Mfr's Type	Lock Screws	Dim., Inches L	W	H
DA-19678-1	2	1.531	.500	.640
DB-19678-2	2	2.078	.500	.640
DC-19678-3	3	2.718	.500	.640
DD-19678-4	3	2.625	.609	.703

Low-carbon steel clamp with weather resistant cadmium plating. Exceeds 50-hour salt spray test; meet **MIL-STD-202A**, 3 oz.

Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-Up
750-0046	DA-19678-1	1.90	1.24	1.04	.88
750R0078	DB-19678-2	2.25	1.46	1.23	1.04
750-0098	DC-19678-3	2.70	1.75	1.46	1.25
750-0114	DD-19678-4	2.90	1.96	1.58	1.34

SCREW LOCK ASSEMBLIES

For junction shells above. Same corrosion-resistant construction. *Female; †Male. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	For Shell Size	EACH 1-9	10-49	50-99	100-Up
750R0015	*D20418-2	All	.80	.49	.44	.37
750R0016	†D20419-0	DA, DB, DC, DE	.53	.31	.27	.25



CONNECTORS WITH TERMINALS ON .100″ CENTERS

Terminal style is wire wrap. Insulators molded of diallyl phthalate Type SDG-F. Combines min. insertion force with max. contact pressure. Cantilever contact design handles 1/16″ thick single or double sided boards. Current Rating: 3 amps. Rated Voltage: 600 VDC. Insulation Res. 5000 megohms min. Contact Res: 16 milliohms max. Contacts Phosphor bronze. Shipping wt. 2 oz.

253 SERIES WIRE WRAP

Stock No.	Mfr's Type	No. of Cont.	EACH 1-9	10-24	25-49	50-Up
750-1191	5072C30	36/72	8.45	6.89	5.62	4.76

50 GP-1 CARD POST GUIDE

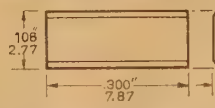


For any 250, 251, 252 or 253 series connector with clearance mounting holes. Polypropylene card guide. 1 oz.
750R1099. 1-9 .52 10-24 .43 25-Up .35

SERIES 225 POLARIZING KEY

Type 225-594. Between-contact key for .125″ center wire-wrapables and .156″ center solder types.
713-6101. Type 225-594 Key..... Each .07

POLARIZING KEYS FOR .156″ CENTER PC CONNECTORS AND PLUGS

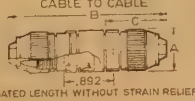


Phenolic dielectric polarizing keys for Series 225 and 133 .156″ center PC connectors and plugs on page **92.** Type 50PK-1 takes up one contact position; Type 50PK-2 does not reduce contact position. For series 250, 251, 252, .156″ center on page **93.**

Stock No.	Type No.	EACH 1-9	10-24	25-49	50-Up
750-1102	50PK-1	.12	.10	.09	.08
750R1103	50PK-2	.11	.09	.08	.07



TYPE 222 PLUG AND JACK



222 "MIGHTY MITE" CIRCULAR

Reliable micro-miniature connectors for cable-to-cable or cable-to-chassis use. .085″ ctrs. Five keys, contact identification numbers molded into polycarbonate resin dielectric. 19-contact size, .621″ dia. x 2.618″; 31-contact, .746×2.948″; 61-contact, .966×3.530″. **Less contacts.** Use "Relia-Tac" contacts. 1½ oz.

Stock No.	Mfr's. Type	Con-tacts	Descrip-tion	EACH 1-9	10-49	50-Up
713-5901	222-11N19	19	Plug	1.78	1.45	.94
713-5904	222-12N19	19	Receptacle	1.38	1.17	.77
713-5920	222-518	19	Cable Clamp	2.93	2.43	1.58

Multi-Circuit Ribbon Connectors

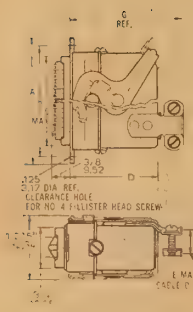
BLUE RIBBON CONNECTORS

• Self-Cleaning Contacts **• Matching Positive Polarization** **• For Heavy-Duty Applications**

For multi-circuit connection, switching and re-routing. Gold-plated spring contacts. Low insertion and removal forces. Diallyl phthalate dielectric meets government specs. Stainless steel mounting plates. *End cable outlet; †side cable outlet. S in Type No. indicates socket contacts; P, plug. For wire up to #16. Rated 5 amps @ 750 VDC. Av. shpg. wt. 4 oz.

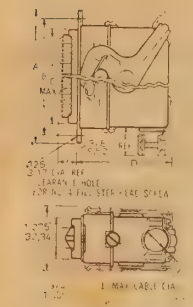
CABLE OR CHASSIS TERMINATION CONNECTORS





(A) CABLE TERMINATION

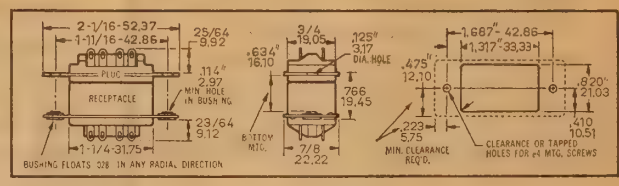
Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
8	713-0629	26-4301-8S*	14.82	11.61	9.80	8.00
8	713-0647	26-4501-8S†	13.70	10.71	9.05	7.38
8	713-0628	26-4301-8P*	12.20	9.56	8.06	6.58
16	713-0631	26-4301-16S*	13.95	12.95	10.93	8.92
16	713-0649	26-4501-16S†	13.95	12.95	10.93	8.92
16	713-0630	26-4301-16P*	12.98	11.98	10.12	8.25
16	713-0648	26-4501-16P†	12.96	11.96	10.10	8.24
24	713-0633	26-4301-24S*	15.73	15.13	12.77	10.42
24	713-0651	26-4501-24S†	15.61	14.61	12.33	10.07
24	713-0632	26-4301-24P*	13.96	13.46	11.37	9.27
32	713-0635	26-4301-32S*	16.89	16.39	13.84	11.29
32	713-0653	26-4501-32S†	16.64	16.14	13.63	11.12
32	713-0634	26-4301-32P*	15.92	14.92	12.61	10.29



(B) CHASSIS TERMINATION

Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
8	713-0637	26-4401-8P	7.02	5.49	4.63	3.78
8	713-0638	26-4401-8S	8.45	6.61	5.58	4.55
16	713-0639	26-4401-16P	9.17	7.18	6.06	4.95
16	713-0640	26-4401-16S	10.37	8.12	6.85	5.59
24	713-0641	26-4401-24P	10.35	8.10	6.83	5.58
24	713-0642	26-4401-24S	11.80	9.21	7.78	6.35
32	713-0643	26-4401-32P	10.47	8.22	6.94	5.67
32	713-0644	26-4401-32S	10.30	10.42	8.79	7.17

SERIES 26 BARRIER POLARIZED CONNECTORS



MALE



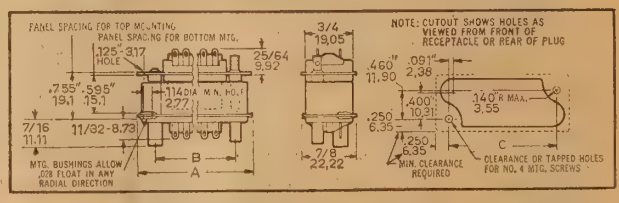
Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
8	713-0603	26-182	2.52	1.98	1.67	1.36
8	713-0610	26-4100-8P	1.90	1.43	1.23	1.01
16	713-0611	26-4100-16P	3.52	2.69	2.28	1.88
24	713-0612	26-4100-24P	4.35	3.30	2.79	2.30
32	713-0613	26-4100-32P	5.17	3.86	3.29	2.70

FEMALE



Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
8	713-0604	26-183	3.95	3.09	2.62	2.13
8	713-0618	26-4200-8S	2.97	2.32	1.95	1.62
16	713-0619	26-4200-16S	4.40	3.41	2.90	2.37
24	713-0620	26-4200-24S	5.32	4.06	3.44	2.82
32	713-0621	26-4200-32S	6.42	4.87	4.14	3.40

SERIES 26 PIN-POLARIZED CONNECTORS



MALE



Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
16	713-0600	26-159-16	4.62	3.42	2.91	2.37
24	713-0601	26-159-24	5.22	4.08	3.45	2.82
32	713-0602	26-159-32	6.60	5.17	4.33	3.56

FEMALE



Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
16	713-0605	26-190-16	5.85	4.37	3.70	3.01
24	713-0606	26-190-24	7.02	5.49	4.64	3.78
32	713-0607	26-190-32	8.27	6.36	5.43	4.43

SERIES 26 BARRIER POLARIZED CONNECTORS—KEYED SHELLS



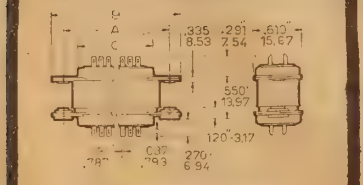
MALE

Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
16	713-0615	26-4101-16P	6.87	5.37	4.53	3.70



FEMALE

Contacts	Stock No.	Mfr's Type	EACH 1-4	5-9	10-49	50-Up
16	713-0624	26-4201-16S	7.05	5.51	4.66	3.81



SERIES 57 MICRO RIBBON® CONNECTORS

RACK AND PANEL CONNECTORS

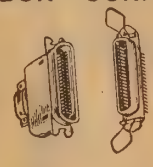
Especially Designed for Use in Miniaturized Space Age Projects



These extremely small connectors provide increased reliability in miniaturized programs particularly in airborne electronics and computer projects. Permit routing a great many circuits through a few connectors. Self-cleaning for long life. Precision molded Diallyl Phthalate inserts. Gold plated contacts rated 5 amps at 700 VDC. High impact strength. Float bushings allow .020". Contact tails have eyelets for soldering. Clear iridite-finished brass shells. Wire up to #22, Av. shpg. wt, 2 oz.

CHASSIS-TO-CHASSIS CONNECTORS

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-Up
713-1700	57-10140	14-Contact Plug	3.13	2.14	1.74
713-1711	57-20140	14-Contact Socket	3.20	2.20	1.77
713-1702	57-10240	24-Contact Plug	4.33	2.89	2.51
713-1713	57-20240	24-Contact Socket	4.38	2.94	2.42
713-1704	57-10360	36-Contact Plug	4.88	3.35	2.72
713-1715	57-20360	36-Contact Socket	5.00	3.41	2.80
713-1706	57-10500	50-Contact Plug	6.35	4.39	3.57
713-1717	57-20500	50-Contact Socket	6.53	4.43	3.63



CABLE-TO-CHASSIS LATCHING CONNECTORS

Sturdy spring-type latches on the receptacles are guided and held by cut-outs in the plug flanges. Cadmium-plated brass shells; clear chromate finish. Wt. 2 oz.

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-Up
713R1722	57-30140	14-Contact Plug	5.78	4.18	3.31
713R1726	57-40140	14-Contact Socket	3.88	2.69	2.20
713R1723	57-30240	24-Contact Plug	6.53	4.49	3.66
713R1727	57-40240	24-Contact Socket	4.70	3.21	2.63
713R1724	57-30360	36-Contact Plug	8.00	5.54	4.51
713R1728	57-40360	36-Contact Socket	5.15	3.53	2.88
713R1725	57-30500	50-Contact Plug	8.88	6.11	5.00
713R1729	57-40500	50-Contact Socket	6.73	4.58	3.74



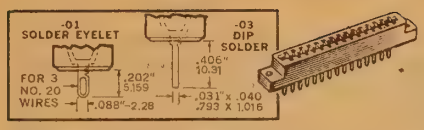
CABLE-TO-CABLE CONNECTORS

Standard cable-to-cable connectors have cable entry at top of shell with strain relief clamp. Right-angle hoods with cable clamps and dust caps. Mate with 50-contact units above. Av. wt. 2 oz.

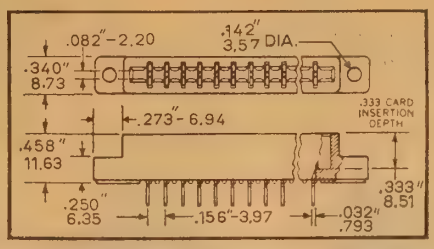
713R1708	57-10500-7	50-Contact Plug	7.30	5.02	4.11
713-1719	57-20500-7	50-Contact Socket	7.70	5.29	4.32

PC Connectors and Plugs

SERIES 143 .156″ CENTER PC CONNECTORS

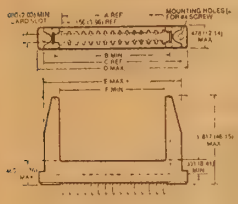


Mate with std. .054-.070″ PC board and Series 133 plugs below. Long spring base of contact prevents "setting". Drop at 2 amps is approx. 5 millivolts. Can be polarized by 143-953 key when used with 133 Series. Last two digits in type number indicate tail type. **Type 01:** eyelet contact. **Type 03:** .040x.400″ pin contact, gold-flashed albaloy contacts. Rated 600V rms at 5 amps. Breakdown: 5400 VDC at sea level. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-4800	143-006-01	6	2.05	1.35	1.14	.95
713-4809	143-010-01	10	2.20	1.41	1.20	1.01
713-4816	143-012-01	12	2.38	1.55	1.33	1.10
713-4825	143-015-01	15	2.73	1.79	1.50	1.25
713-4833	143-018-01	18	3.23	2.13	1.80	1.51
713-4841	143-022-01	22	3.90	2.54	2.14	1.80
713-4811	143-010-03	10	2.20	1.41	1.20	1.01
713-4827	143-015-03	15	2.73	1.79	1.50	1.25
713-4835	143-018-03	18	3.23	2.13	1.80	1.51
713-4843	143-022-03	22	3.45	2.54	2.14	1.80
713-4895	143-953	Polar Key	.12	.10	.08	.07

.156″ CENTER CARD-GUIDE CONNECTORS

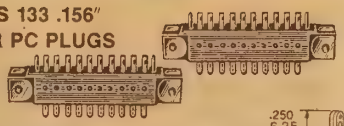


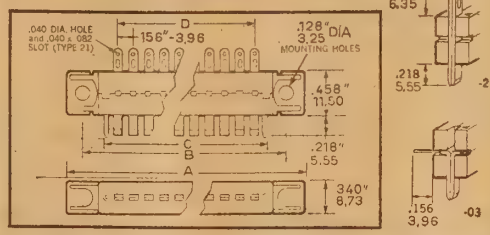
Card guides extend 1⅜″ (34.92 mm) above main body of connector. These integral card guides provide positive alignment in blind installations and prevent board rocking. Has .100″ (2.54 mm) more block width than standard 143 line.

Available in 15 and 22 position sizes with slots between contacts for plastic keys to permit polarization without loss of contacts.

Stock No.	Mfr's Type	Positions	F Min.		EACH			
			In.	MM	1-9	10-49	50-99	100-Up
713-4900	143-015-01 (110)	15	2.250	(57.15)	4.75	3.13	2.61	2.21
713-4910	143-022-01 (110)	22	3.350	(85.09)	6.00	3.97	3.33	2.82

SERIES 133 .156″ CENTER PC PLUGS

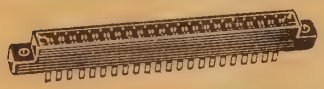


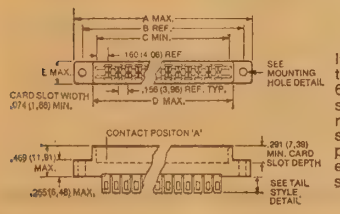


Mate with 143 Series above. Brass, cadmium plated guide pins; cadmium plated end caps; gold over albaloy plated brass contacts. Two .128″ holes for bolting to wiring board. Last two digits in type number indicate tail style. **Type 03:** .042″ d. contact. **Type 21:** eyelet tail. 600 V rms. 5 amps. 3250 VDC breakdown. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-4712	133-010-21	10	3.78	2.48	2.08	1.75
713-4729	133-015-21	15	5.28	3.49	2.93	2.47
713-4743	133-022-21	22	6.23	4.11	3.45	2.89
713-4741	133-022-03	22	5.08	3.33	2.81	2.36

SERIES 225 .156″, .125″ & .100″ CENTER PC CONNECTORS

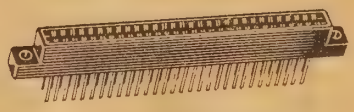




.156″ CENTER PC CONNECTORS

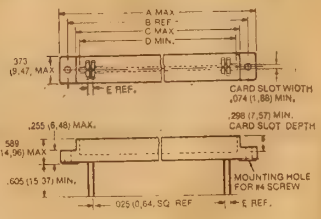
In 117-suffix economy line. Bifurcated bellows contacts with gold plating over copper. Rated 5 amps at 600 VAC. Contacts on .156″ centers with .140″ row spacing. Phenolic dielectric, 5000 megohms insul. resistance. Tail style either *solder eyelets or †Dip solder pins. Fit boards .054″ to .071″ thick. Card slot provides guidance for misaligned boards. Solder eyelet tails accept up to two #18 AWG wires. Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-6132	225-20621-401*	12	2.00	1.66	1.33	1.06
713-6134	225-21021-401*	20	2.65	2.20	1.75	1.41
713-6136	225-21521-401*	30	3.18	2.63	2.09	1.69
713-6138	225-21821-401*	36	3.65	3.04	2.43	1.95
713-6140	225-22221-401*	44	3.95	3.29	2.63	2.11
713-6142	225-22821-401*	56	6.05	5.03	4.03	3.72
713-6144	225-23621-401*	72	7.43	5.86	4.70	3.96
713-6146	225-24321-401*	86	8.50	6.87	5.50	4.53
713-6170	225-20621-404†	12	2.00	1.66	1.33	1.06
713-6172	225-21021-404†	20	2.65	2.20	1.75	1.41
713-6174	225-21521-404†	30	3.18	2.63	2.09	1.69
713-6176	225-21821-404†	36	3.65	3.04	2.43	1.95
713-6178	225-22221-404†	44	3.95	3.29	2.63	2.11
713-6182	225-22821-404†	56	6.05	5.03	4.03	3.72
713-6184	225-23621-404†	72	7.43	5.86	4.70	3.96
713-6186	225-24321-404†	86	8.50	6.87	5.50	4.53



.125″ & .100″ CENTER PC CONNECTORS

PC connectors with wire wrap terminals are economical and reliable for either automatic or hand-wire-wrapping applications. Rated 5 amps at 600 VAC (RMS). Contacts on .125″ centers with .250″ row spacing or .100″ centers with .200″ row spacing. Phenolic dielectric. 5,000 megohms minimum insulation resistance. Fit boards .054″ to .071″ thick. The .025″ square posts accept 3 wraps of #26 AWG wire. Phosphor bronze plated contact material.



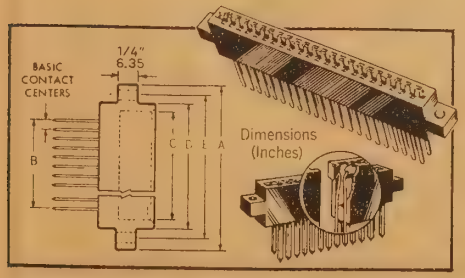
.125″ CONTACT CENTER

Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-6149	225-804-22	44	5.28	4.37	3.34	2.82
713-6150	225-804-30	60	6.98	5.78	4.63	3.72
713-6152	225-804-43	86	9.73	8.05	6.44	5.18
713-6153	225-804-50	100	10.95	9.05	7.25	5.83

.100″ CONTACT CENTER

Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-6156	225-805-22	44	5.28	4.37	3.34	2.82
713-6157	225-805-30	60	6.98	5.78	4.63	3.72
713-6159	225-805-43	86	9.73	8.05	6.44	5.18
713-6160	225-805-50	100	10.95	9.05	7.25	5.83

SERIES 261 .156″ CENTER WIRE-WRAP PC CONNECTORS



Dual readout of double-sided PC boards. Tail is sufficient for three wire wraps plus bussing. Gold-plated phosphor bronze contacts rated 5.0 amps. Voltage rating: 300V rms at sea level. Minimum voltage breakdown: 1800V rms. Contact resistance: 6.0 milliohms maximum. Key replaces one pair of contacts. .025″ (.635mm) square tail, 50001-type contact. Wt.: 3 oz. (85.04gm).

.156″ CENTER DIMENSIONS

Contacts	A	B	C	D	E
18	3.731	2.652	2.966	3.136	3.408
22	4.355	3.276	3.590	3.760	4.032
28	5.291	4.212	4.526	4.696	4.968

.156″ CENTER DIMENSIONS WIRE WRAP

Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-7424	261-15618-2	18	7.18	4.71	3.98	3.34
713-7420	261-15622-2	22	8.30	5.44	4.59	3.85
713-7426	261-15628-2	28	10.23	6.69	5.64	4.76

.125″ CENTER DIMENSIONS

Contacts	A	B	C	D	E
18	3.199	2.125	2.445	2.599	2.881
28	4.449	3.375	3.695	3.849	4.131

.125″ CENTER DIMENSIONS WIRE WRAP

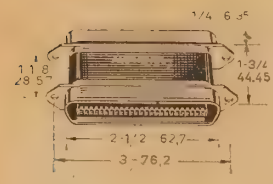
Stock No.	Mfr's Type	Contacts	EACH			
			1-9	10-49	50-99	100-Up
713-7413	261-12518-2	18	5.45	3.63	3.03	2.56
713-7415	261-12528-2	28	7.98	5.30	4.45	3.73

See Page 2 for the Allied Electronics Facility Nearest You

Telephone Products and PC Connectors

TELEPHONE PRODUCTS

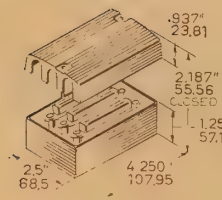
GOOF PLUGS



Interconnects two plug-ended or two connector-ended cables. Feed-through adapter consists of two 57 Series Micro-Ribbon 50-contact connectors or plugs arranged back-to-back in a plastic housing with all common contact interwired.

Stock No.	Mfr's Type	Connector/ Plug Arrangement	EACH 1-9	EACH 10-Up
714-0114	283-114-01	Connector-Connector	14.43	10.80
714-0116	283-114-02	Connector-Plug	14.43	10.80
714-0118	283-114-03	Plug-Plug	14.43	10.80
714-0119	283-114-04	Plug-Plug	14.43	10.80

25-PAIR CABLE ADAPTERS

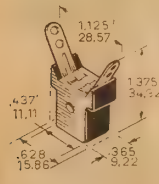


THREE-WAY BRIDGING ADAPTERS FOR 6-BUTTON TELEPHONES. Three interwired 57 Series Micro-Ribbon connecting devices in a durable plastic housing. Used to connect one or more 6-button key tele-devices to 25-pair cables. All common contacts are factory interwired (contact 1 in the first connecting device is wired to contact 1 in both other devices, contact 2 to contact 2 in both other devices, etc. Size: outer case: 4¼x2½x2¼".

Stock No.	Mfr's Type	Connector/ Plug Arrangement	EACH 1-9	EACH 10-24	EACH 25-Up
714-0102	283-105	C-P-C	14.95	10.69	9.61
714-0104	283-106	P-C-P	14.95	10.69	9.61

CONFIGURATIONS. Type 283-105: Mates with one incoming 25-pair connector-ended cable from main terminal box or another bridging adapter; extends circuit to two 6-button phones by mating with plug-ended cable from each. **Type 283-106:** Interconnects one incoming 25-pair connector-ended cable from main terminal box, one outgoing plug-ended cable to a 6-button phone, and one outgoing 25-pair connector-ended cable going to another bridging adapter, thereby extending the circuit.

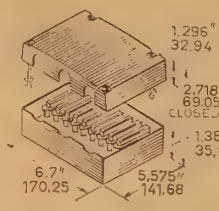
TAC TEST APPARATUS CONNECTOR



Exposed "ears" are widely spread to reduce the possibility of shorts. Contacts are gripped firmly to prevent disconnection. Black molded plastic body. Size (LWH): 1.375×1.437×.365". Base dimension at contact, .437×.365" with .098" gap between contacts.

Stock No.	Mfr's Type	EACH 1-9	EACH 10-24	EACH 25-Up
714R0001	284-1	.90	.60	.47

75-PAIR CABLE ADAPTERS

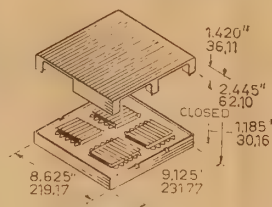


THREE-WAY BRIDGING ADAPTER FOR 18-BUTTON CALL DIRECTOR™ OR CALL COMMANDER™ TYPE PHONES. Nine 57 Series Micro-Ribbon connecting devices interwired to connect and extend circuitry for the popular 18-button telephones. Rugged plastic housing has an easily removed cover and three cable access holes. Every third connector or plug in the adapter is interconnected (connector 1 is wired to plug 4 and connector 7; connector 2 to plug 5 and connector 8; connector 3 to plug 6 and connector 9). Size: 6.700x5.75x2.718".

Stock No.	Mfr's Type	Connector/ Plug Arrangement	EACH 1-9	EACH 10-Up
714-0112	283-53	CCC-PPP-CCC	68.77	51.48

CONFIGURATION: Type 283-53: Mates with one 3-finger (75-pair) connector-ended cable incoming from the main terminal box or another bridging adapter and extends circuit to two 18-button Call Directors by accepting 3-finger plug-ended cable from each.

100-PAIR CABLE ADAPTERS

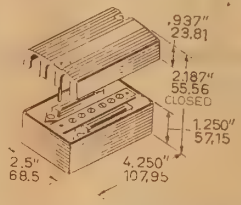


FOUR-WAY BRIDGING ADAPTER FOR 30-BUTTON KEY TELEPHONES. A rugged adapter containing twenty 57 Series Micro-Ribbon connecting devices. Every fifth connecting device is interwired to form 4 completely interconnected sets. Access holes for 5-fingered cables are provided on the sides of the case. This adapter is used with 30-Button Call Director or all Commander type key telephones.

Stock No.	Mfr's Type	Connector/ Plug Arrangement	EACH 1-9	EACH 10-Up
714-4251	283-95-1	Connector-Plug	131.99	98.80

CONFIGURATION: Interconnects one five-finger (100 pair) connector-ended cable incoming from the main terminal box or another bridging adapter, two five-finger plug-ended cables, each from a 30-button Call Director and a five-finger (100 pair) connector-ended cable outgoing to another bridging adapter, extending the circuit.

TERMINAL STRIP ADAPTER



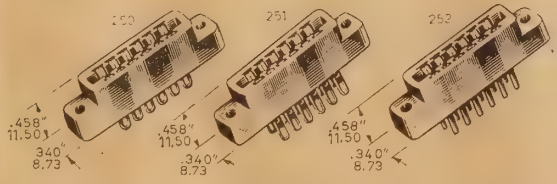
Screw-type terminal interconnects with plug-ended cable system. Eliminates necessity of cutting off the plug or connector and reterminating the entire cable. Consists of one 57 Series Micro-Ribbon connector and one plug with all 50 contacts interwired. The last three or four pairs of leads are also interwired to center terminal strip. Size: standard 3-way case, 4½×2½×2½".

Stock No.	Mfr's Type	No. of Terminals	EACH 1-9	EACH 10-Up
714-0120	283-5	6	14.49	11.95

COLOR CODING FOR TERMINAL STRIP ADAPTER

Terminal Contacts	Color Coding Ringer	Color Coding Tipside	Terminal Contacts	Color Coding Ringer	Color Coding Tipside	Terminal Contacts	Color Coding Ringer	Color Coding Tipside
50	Violet	Slate	49	Violet	Brown	48	Violet	Green
25	Slate	Violet	24	Brown	Violet	23	Green	Violet

.156" CENTER PC CARD-EDGE CONNECTORS



For 1/16" PC boards. Minimum card wear, low insertion force, positive contact. Phosphor-bronze contacts with .00003" min. gold-plate. Glass-filled diallyl phthalate insulation, SDG-F per **MIL-M-14F.** Two flexible surfaces offset irregularities in PC boards. Plastic polarizing key available (listed separately). 830 VAC RMS, 5 Amps. **Series 250, 251:** solder tab contacts. "M" in type number indicates beryllium copper contacts with 50 micro-inches gold finish per **MIL-C-21097.** Av. shpg. wt., 2 oz.

DIMENSIONAL DATA



NO OF CONTACT POSITIONS	ALL DIMENSIONS IN INCHES A	B	C	D
6	1.100	1.239	1.531	1.785
10	1.724	1.846	2.156	2.410
12	2.036	2.177	2.469	2.723
15	2.504	2.645	2.937	3.191
18	2.972	3.114	3.406	3.660
22	3.596	3.739	4.031	4.285
25	4.067	4.208	4.500	4.754

250 SINGLE-READOUT .156" CENTERS — SOLDER TABS

Stock No.	Mfrs. Type	Contact Pos.	No. of Cont.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
750-1100	50- 6A-20	6	6	2.15	1.73	1.40	1.21
750-1105	50-10A-20	10	10	2.87	2.34	1.92	1.60
750-1110	50-12A-20	12	12	3.33	2.66	2.25	1.81
750-1119	50-15A-20	15	15	3.92	3.12	2.52	2.15
750-1124	50-18A-20	18	18	4.53	3.56	2.89	2.44
750-1137	50-22A-20	22	22	5.32	4.19	3.41	2.88
750-1138	50-22A-20M	22	22	9.52	6.75	5.64	4.90
750-1155	50-25A-20	25	25	6.26	4.98	4.03	3.42

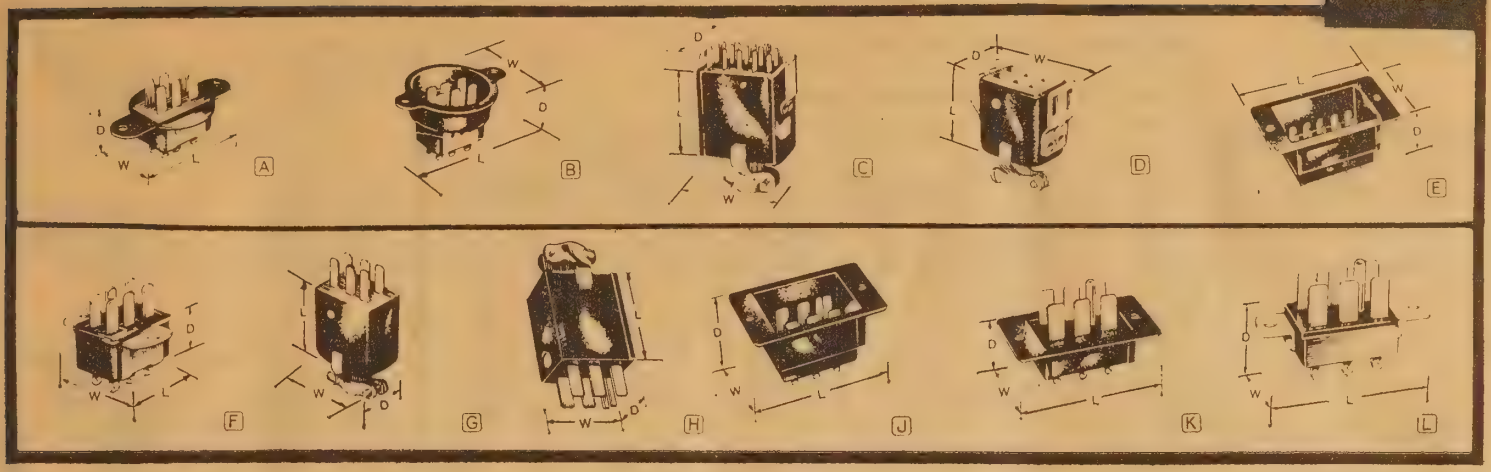
251 DOUBLE-READOUT .156" CENTERS — SOLDER TABS

750-1129	50-20A-30	10	20	2.83	2.32	1.90	1.58
750-1150	50-24A-30	12	24	3.28	2.64	2.23	1.79
750-1157	50-30A-30	15	30	3.85	3.09	2.49	2.12
750-1166	50-36A-30M	18	36	7.64	5.54	4.59	3.98
750R1173	50-44A-30	22	44	5.23	4.15	3.37	2.84
750-1174	50-44A-30M	22	44	9.06	6.56	5.45	4.71
750-1185	50-50A-30	25	50	6.15	4.91	3.99	3.78

252 DOUBLE-READOUT .156" CENTERS — DIP SOLDER TAILS

750-1134	50-20B-10	10	20	2.82	2.32	1.90	1.58
750-1177	50-44B-10	22	44	5.20	4.14	3.36	2.83

Chassis-Mounting Connectors



300 SERIES PLUGS AND SOCKETS

For light and medium duty. Polarized; suitable for either cap or panel mounting. Black phenolic body. Contacts: phosphor bronze, cadmium plated. "Knife-switch" type socket contacts engage both sides of the flat brass plug contacts. Plug prongs are 3/32" wide x 3/64" thick. Housing: Formed metal, black wrinkle finish and insulating liners. Rated 730 volts rms at 10 amps, under most conditions. When all contacts are carrying full current simultaneously, total rating is 7.5 amps (1875 watts) for 2-12 contacts, 4.5 amps (1125 watts) for 15-33 contacts. *2-contact units are round; others rectangular. U.L. recognized. Shpg. wt. 7 oz.

400 AND 2400 SERIES PLUGS AND SOCKETS

400 Series: Max. rating, 1100 V rms at 15 amps; 3750 watts max. on any contact. Polarized; for either cap or panel mounting. "Knife-switch" type contacts engage both sides of the flat plug contacts. Plug prongs are 1/4" wide x 1/16" thick. Caps finished in black wrinkle; insulating lining. Interchangeable with 2400 Series. 7 oz.

2400 Series: Max. rating, 1700 V rms at 10 amps (2500 watts on any contact). Socket contact makes contact over practically its entire length. Contacts are mounted into recessed pockets with phenolic barrier, on top and bottom side, greatly increasing the leakage path. Black phenolic body. 7 oz.

DISCOUNT SCHEDULE	Quantity	10-24	25-49	50-Up
	Discount	15%	30%	40%

300 SERIES CHASSIS-MOUNT CONNECTORS

(A) FP PLUG WITH FLUSH PLATE

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
6	P-306-FP	2 1/16 x 1 1/4 x 7/16	750-0427	1.33
8	P-308-FP	2 5/16 x 1 3/4 x 7/16	750-0434	1.43

(A) FP SOCKETS WITH FLUSH PLATE

6	S-306-FP	2 1/16 x 1 1/4 x 7/16	750-0635	1.35
8	S-308-FP	2 5/16 x 1 3/4 x 7/16	750-0642	1.50

(B) RP PLUG WITH RECESSED PLATE

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
6	P-306-RP	2 1/16 x 1 1/2 x 5 1/64	750-0428	1.43

(B) RP SOCKET WITH RECESSED PLATE

6	S-306-RP	2 1/16 x 1 1/2 x 5 1/64	750-0636	1.45

(C) CCT-L PLUGS WITH CABLE CLAMPS AND LATCHES

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2*	P-302-CCT-L	61/64 x 2 1/32 dia.	750-0406	1.45
3	P-303-CCT-L	61/64 x 1 7/16	750-0412	1.53
4	P-304-CCT-L	61/64 x 3/4 x 1 1/16	750-0418	1.65
6	P-306-CCT-L	1 5/64 x 1 x 1 1/16	750-0425	1.78
8	P-308-CCT-L	1 5/64 x 1 1/4 x 1 1/16	750-0432	1.90
10	P-310-CCT-L	1 1/64 x 1 3/16 x 1 1/16	750-0439	2.10
12	P-312-CCT-L	1 1/64 x 1 1/4 x 1 5/16	750-0445	2.28

(D) CCT-K SOCKETS WITH CABLE CLAMPS AND KEEPERS

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2*	S-302-CCT-K	61/64 x 2 1/32 dia.	750-0611	1.48
3	S-303-CCT-K	61/64 x 1 7/16	750-0620	1.63
4	S-304-CCT-K	61/64 x 3/4 x 1 1/16	750-0626	1.68
6	S-306-CCT-K	1 5/64 x 1 x 1 1/16	750-0633	1.85
8	S-308-CCT-K	1 5/64 x 1 1/4 x 1 1/16	750-0640	1.98
10	S-310-CCT-K	1 1/64 x 1 3/16 x 1 1/16	750-0647	2.33
12	S-312-CCT-K	1 1/64 x 1 1/4 x 1 5/16	750-0653	2.55

(E) DB RECESSED SOCKETS FOR CHASSIS MOUNTING

6	S-306-DB	2 7/64 x 1 7/32 x 5 9/64	750-0634	1.68
12	S-312-DB	2 7/64 x 1 7/32 x 5 9/64	750-0654	2.35
15	S-315-DB	2 1 3/64 x 1 5/16 x 1 7/32	750-0661	2.75

(F) AB PLUGS FOR CHASSIS MOUNTING

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2*	P-302-AB	2 1/32 dia. x 1 7/32 x 7/16	750-0404	.58
3	P-303-AB	1 x 1 1/16 x 7/16	750-0410	.68
4	P-304-AB	3/4 x 1 3/16	750-0416	.73
6	P-306-AB	1 x 1 5/16 x 7/16	750-0422	.93
10	P-310-AB	1 3/64 x 1 5/16 x 7/16	750-0436	1.25
12	P-312-AB	1 1/64 x 1 5/16 x 7/16	750-0442	1.35

(F) AB SOCKETS FOR CHASSIS MOUNTING

2*	S-302-AB	2 1/32 dia. x 1 7/32 x 7/32	750R0609	.63
3	S-303-AB	1 x 1 1/16 x 7/16	750-0618	.70
4	S-304-AB	3/4 x 1 1/16 x 7/16	750R0624	.85
6	S-306-AB	1 x 1 5/16 x 7/16	750-0630	.95
8	S-308-AB	1 1/64 x 1 5/16 x 7/16	750-0637	1.25
10	S-310-AB	1 3/64 x 1 5/16 x 7/16	750-0644	1.40
12	S-312-AB	1 1/64 x 1 5/16 x 7/16	750-0650	1.53
24	S-324-AB	2 1/64 x 1 1 5/64 x 7/16	750-0678	3.25

(G) CCT PLUGS WITH CABLE CLAMPS

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2*	P-302-CCT	61/64 x 2 1/32 dia.	750R0405	1.25
3	P-303-CCT	61/64 x 1 7/16	750R0411	1.35
4	P-304-CCT	61/64 x 3/4 x 1 1/16	750R0417	1.43
6	P-306-CCT	1 5/64 x 1 x 1 1/16	750R0424	1.50
8	P-308-CCT	1 5/64 x 1 1/4 x 1 1/16	750R0431	1.65
10	P-310-CCT	1 1 3/64 x 1 3/16 x 1 1/16	750-0438	1.78
12	P-312-CCT	1 1 3/64 x 1 1/4 x 1 5/16	750R0444	1.90
15	P-315-CCT	1 1 7/32 x 1 1 5/64 x 1 1/8	750-0451	2.50
18	P-318-CCT	1 1 7/32 x 2 x 1 1/8	750-0458	3.00
24	P-324-CCT	1 1 7/32 x 2 3/64 x 1 1/8	750-0472	4.18
33	P-333-CCT	1 1 7/32 x 3 1/64 x 1 1/8	750-0493	5.88

(G) CCT SOCKETS WITH CABLE CLAMPS

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2*	S-302-CCT	61/64 x 2 1/32 dia.	750R0610	1.28
3	S-303-CCT	61/64 x 1 7/16	750-0619	1.35
4	S-304-CCT	61/64 x 3/4 x 1 1/16	750R0625	1.43
6	S-306-CCT	1 5/64 x 1 x 1 1/16	750-0632	1.63
8	S-308-CCT	1 5/64 x 1 1/4 x 1 1/16	750-0639	1.75
10	S-310-CCT	1 1 3/64 x 1 3/16 x 1 1/16	750-0646	1.93
12	S-312-CCT	1 1 3/64 x 1 1/4 x 1 5/16	750R0652	2.28
15	S-315-CCT	1 1 7/32 x 1 1 1/16 x 1 1/8	750-0659	2.88
18	S-318-CCT	1 1 7/32 x 2 x 1 1/8	750-0666	3.23
24	S-324-CCT	1 1 7/32 x 2 3/64 x 1 1/8	750-0680	4.35
33	S-333-CCT	1 1 7/32 x 3 1/16 x 1 1/8	750-0701	5.18

400 AND 2400 SERIES

(H) CCT PLUGS WITH CABLE CLAMPS

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
2	P-402-CCT	1 27/32 x 5/8 x 1 1/8	750-0502	2.33
4	P-404-CCT	1 27/32 x 1 1/16 x 1 1/8	750R0506	2.58
6	P-406-CCT	1 27/32 x 1 1/32 x 1 1/8	750R0512	2.98
8	P-408-CCT	1 27/32 x 1 15/64 x 1 1/8	750-0518	3.25
10	P-410-CCT	1 27/32 x 2 3/64 x 1 1/8	750-0524	3.80
12	P-412-CCT	1 27/32 x 2 1 3/64 x 1 1/8	750-0530	4.08
12	P-2412-CCT	1 27/32 x 2 1 3/64 x 1 1/8	750-0578	3.88

(H) CCT SOCKETS WITH CABLE CLAMPS

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
*2	S-402-CCT	1 27/32 x 3/64 x 1 1/8	750-0708	2.58
4	S-404-CCT	1 27/32 x 1 1/16 x 1 1/8	750-0714	3.05
6	S-406-CCT	1 27/32 x 1 1/32 x 1 1/8	750R0720	3.50
8	S-408-CCT	1 27/32 x 1 15/64 x 1 1/8	750-0726	4.05
10	S-410-CCT	1 27/32 x 2 3/64 x 1 1/8	750-0732	4.48
12	S-412-CCT	1 27/32 x 2 1 3/64 x 1 1/8	750-0738	4.98
12	S-2412-CCT	1 27/32 x 2 1 3/64 x 1 1/8	750-0786	4.25

(J) DB RECESSED PLUGS FOR CHASSIS MOUNTING

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
4	P-404-DB	2 3/64 x 1 3/64 x 1 7/32	750-0507	2.28
6	P-406-DB	2 3/64 x 1 3/64 x 1 7/32	750-0511	2.58
8	P-408-DB	3 1/64 x 1 3/64 x 1 7/32	750-0519	2.98
12	P-412-DB	3 15/64 x 1 3/64 x 1 7/32	750-0531	3.75

(J) DB RECESSED SOCKETS FOR CHASSIS MOUNTING

4	S-2404-DB	2 3/64 x 1 3/64 x 1 7/32	750-0767	2.40
6	S-2406-DB	2 3/64 x 1 3/64 x 1 7/32	750-0772	2.70
12	S-2412-DB	3 15/64 x 1 3/64 x 1 7/32	750-0787	3.60

(K) SB FLUSH SOCKETS FOR CHASSIS MOUNTING

Contacts	Mfr's Type	Dimensions, Inches L x W x D	Stock No.	EACH
6	S-406-SB	2 3/64 x 1 3/64 x 7/16	750-0723	3.05
8	S-408-SB	2 15/64 x 1 3/64 x 7/16	750-0729	3.55

(L) AB SOCKETS WITH ANGLE BRACKETS

4	S-404-AB	2 1/32 x 1 x 1/2	750-0712	1.98
6	S-406-AB	2 15/32 x 1 x 1/2	750-0718	2.53
8	S-408-AB	2 23/32 x 1 x 1/2	750-0724	2.98

Nylon Connectors and Terminals

ORDERING INFORMATION

MINIATURE NYLON CONNECTOR HOUSINGS

.062" (1.57mm) Pin Diameter, .145" (3.68mm) Grid Pattern, 250 Volts per Circuit. Order Terminals from Below.

No. of Circuits	Amps per Circ.	Std. Pkg.	PLUGS (With Mounting Ears) Stock No.	Mfr's Type	Per Package 1-9	Per Package 10-Up	RECEPTACLES (With Mounting Ears and Holding Tabs) Stock No.	Mfr's Type	Per Package 1-9	Per Package 10-Up
1	5	10	863-0100	03-06-2011*	1.05	.72	863-0105	03-06-1011†	.90	.62
3	5	10	863-0110	03-06-2031	1.80	1.27	863-0115	03-06-1031	2.05	1.36
4	5	10	863-0120	03-06-2041	4.05	2.72	863-0125	03-06-1041	4.00	2.68
5	5	5	863-0130	03-06-2054	1.35	.90	863-0135	03-06-1055	1.70	1.16
6	5	5	863-0140	03-06-2062	1.25	.87	863-0145	03-06-1061	1.45	1.01
8	5	5	863-0150	03-06-2081*	1.05	.74	863-0155	03-06-1081	1.35	.91
9	5	5	863-0160	03-06-2091	1.36	.93	863-0165	03-06-1091	1.55	1.07
12	5	5	863-0170	03-06-2121	1.45	.97	863-0175	03-06-1121	1.65	1.11
15	5	5	863-0180	03-06-2151	2.30	1.58	863-0185	03-06-1151	2.65	1.80
24	4	5	863-0190	03-06-2241	3.50	2.34	863-0195	03-06-1241	3.65	2.46
36	4	5	863-0200	03-06-2361	4.10	2.77	863-0205	03-06-1361	4.30	2.90

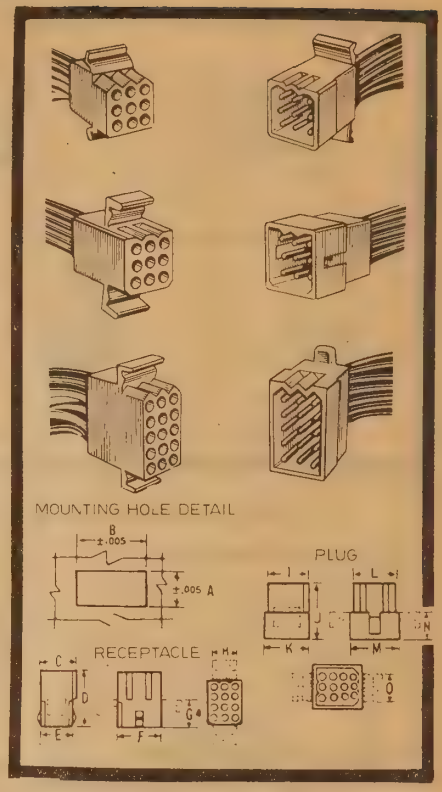
*Without mounting ears. †With holding tabs only.

STANDARD NYLON CONNECTOR HOUSINGS

.093" (2.36mm) Pin Diameter, .198" (5.02mm) Grid Pattern, 250 Volts per Circuit. Order Terminals from below.

No. of Circuits	Amps per Circ.	Std. Pkg.	PLUGS (With Mounting Ears) Stock No.	Mfr's Type	Per Package 1-9	Per Package 10-Up	RECEPTACLES (With Mounting Ears and Holding Tabs) Stock No.	Mfr's Type	Per Package 1-9	Per Package 10-Up
1	12	10	863-0300	03-09-2011*	1.05	.71	863-0305	03-09-1011†	.90	.62
2	12	10	863-0310	03-09-2021	2.05	1.39	863-0315	03-09-1021	2.10	1.40
3	12	10	863-0320	03-09-2031	1.80	1.24	863-0325	03-09-1031	1.85	1.26
4	9	10	863-0330	03-09-2041	2.50	1.68	863-0335	03-09-1041	2.55	1.72
5	9	5	863-0340	03-09-2052*	1.50	1.04	863-0345	03-09-1052†	1.85	1.25
6	9	5	863-0350	03-09-2061	1.60	1.09	863-0355	03-09-1061	1.70	1.14
9	9	5	863-0360	03-09-2091	1.85	1.25	863-0365	03-09-1091	1.80	1.22
12	7.5	5	863-0370	03-09-2121*	1.75	1.19	863-0375	03-09-1121	1.95	1.32
15	7.5	5	863-0380	03-09-2151*	2.70	1.83	863-0385	03-09-1151	3.05	2.07

*Without mounting ears. †With holding tabs only.



MINIATURE .062" CONNECTOR DIMENSIONS

Recep./ Plug Size, In.	Number of Circuits 1	3	4	5	6	8	9	12	15	24	36
	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-	03-06-
	1011, 2011	1031 2031	1041, 2041	1055 2054	1061 2062	1081 2081	1091 2091	1121 2121	1151 2151	1241 2241	1361 2361
A	.....	.265 .318	.....	.265	.552 ...	.330	.552 .615	.563 .614	.563 .614	.715 .765	.707 .825
B	.....	.650 .754	....	.940	505	1.715	.650 .752	.795 .903	.934 1.042	1.079 1.182	1.677 1.795
C	.203*	.203	.203	.203	484	.310	.531	.531	.531	.640	.859
D	.781	.781	.781	.781	.781	.781	.781	.781	.781	.750	.781
E	.....	.203	.203	.203	.484	.220	.484	.484	.484	.500	.687
F	.....	.484	.625	.781	.343	1.500	.484	.625	.765	.920	1.515
G	.....	.390	.390	.390	.390	390	.390	.390	.390	.375	.390
H	.....	.187	.....	.187	.375	.312	.375	.375	.375	.500	.562
I	.203*	.203	.203	.203	.484	.225	.531	.531	.531	.640	1.015
J	.750	.750	.750	.750	.750	.750	.750	.750	.750	.750	.750
K	296*	.281	296	.296	.578	.312	.578	.578	.593	.750	.812
L	.....	.484	.625	.781	343	1.500	.484	.625	.781	.930	1.640
M	.....	.578	.734	.875	.453	1.593	.578	.718	.859	1.031	1.640
N	.....	.375	.375	.....	.375	.....	.375	.375	.375	.375	.375
O	.....	.187	.....	.....	.....	.....	.375	.375	.350	.500	.625

STANDARD .093" CONNECTOR DIMENSIONS

Recep./ Plug Size, In.	Number of Circuits 1	2	3	4	5	6	9	12	15
	03-09-	03 09-	03-09-	03-09-	03 09-	03-09-	03-09-	03-09-	03-09-
	1011, 2011	1021 2021	1031 2031	1041 2041	1052, 2052	1061 2061	1091 2091	1121 2121	1151 2151
A	.....	.705 .800	.840 .933	1.038 1.131	.....	.718 .750	.828 937	1.050 1.155	1.240 1.343
B	.....	.312 .375	.312 .375	.312 .375	.....	.600 .695	.725 .725	.655 .760	.655 .760
C	.234*	.250	.234	.236	.234	632	.625	.640	.632
D	1.000	1.000	1.031	1 000	1.000	1.031	1.031	1.031	1.031
E	.....	.250	.234	.236	.234	.632	.625	.640	.632
F	.....	.531	671	.875	1.062	.437	.671	.870	1.067
G	.....	.437	.437	.437	.437	.437	.437	.437	.437
H	.....	.250	.234	.236	.....	.562	.562	.562	.562
I	.241*	.250	.234	.250	.250	.734	.634	.634	.632
J	.968	.968	.968	.968	.968	.968	.968	.968	.968
K	.358*	.352	.338	.338	.343	.640	.734	.734	.734
L	.....	.531	671	859	1.062	531	765	975	1.169
M	.....	.640	.773	.968	1.171	.531	.765	975	1.169
N	.....	.421	.421	.421	.421	.421	.....	.421	.421
O	.....	250	.234	.250	.....	.562	.562	.562	.562

Dimensions are in inches. Dimensions not shown are not applicable to that connector type.* diameter.



CRIMP TYPE TERMINALS

Stock No.	Mfr's Type	Series	Type	Mating Dia.	Wire AWG Range	Use Hand Tool	Per Pkg. of 100 1-9	Per Pkg. of 100 10-Up
863-0390	02-09-1103	Standard	Female	.093"	18-14	11-01-0014	4.30	2.71
863-0395	02-09-2103	Standard	Male	.093"	18-14	11-01-0014	4.30	2.71
863-0400	02-09-1118	Standard	Female	.093"	24-18	11-01-0014	4.30	2.71
863-0405	02-09-2118	Standard	Male	.093"	24-18	11-01-0014	4.30	2.71
863-0410	02-09-1143	Standard	Female	.093"	30-22	11-01-0014	4.30	2.71
863-0415	02-09-2143	Standard	Male	.093"	30-22	11-01-0014	4.30	2.71
863-0210	02-06-1103	Miniature	Female	.062"	22-18	11-01-0015	4.65	4.03
863-0215	02-06-2103	Miniature	Male	.062"	22-18	11-01-0015	4.65	4.03
863-0220	02-06-1132	Miniature	Female	.062"	30-22	11-01-0015	4.65	4.03
863-0225	02-06-2132	Miniature	Male	.062"	30-22	11-01-0015	4.65	4.03

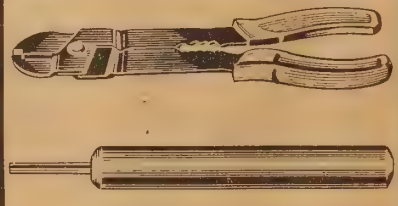


NYLON CONNECTOR DESIGNER KITS

Polarized nylon connector kits include male and female housings in all circuit capacities, terminals and tools, in individual compartments. Lightweight, unbreakable; snap-lock.

Type WM-72 Miniature Kit. 56 connectors using .062" terminals, crimp & ejector tools.
863-0600 ..... **Each 39.99**

Type WM-50 Standard Kit. 45 connectors using .093" terminals, crimp & ejector tools.
863-0610 ..... **Each 34.98**

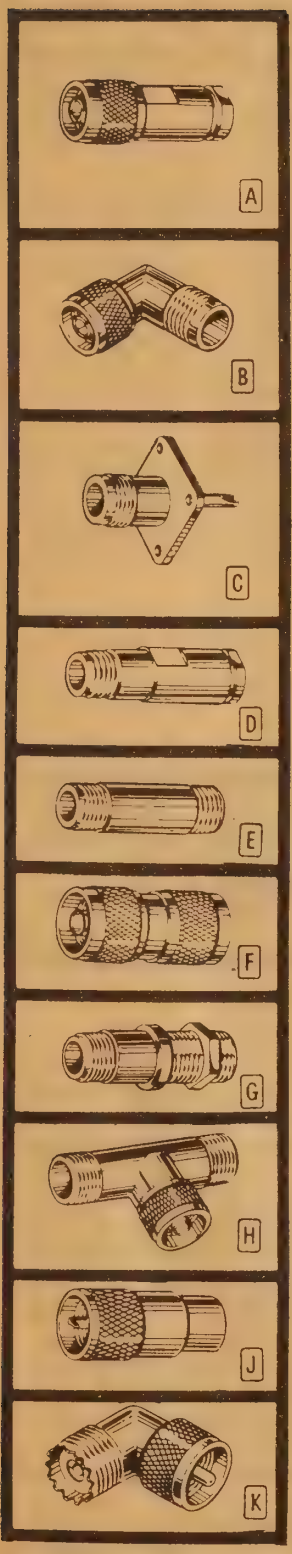


NYLON CONNECTOR TOOLS

PROTOTYPE CRIMPING TOOLS. Balanced and weighted, machined from hardened steel. **Type 11-01-0014.** For .093" pin terminals.
863-0520 ..... **Each 11.61**
Type 11-01-0015. For .062" pin terminals.
863-0500 ..... **Each 11.61**

EXTRACTOR TOOLS. Remove terminal from connector housing without damage.
Type 11-03-0006. For .093" pin terminals.
863-0530 ..... **Each 9.52**
Type 11-03-0002. For .062" pin terminals.
863-0510 ..... **Each 9.52**

WEATHERPROOF, TARNISH-RESISTANT CONNECTORS



TYPE N COAXIAL CONNECTORS

Medium size, weatherproof, threaded coupling units may be used in systems up to microwave. SWR is consistently low. Meet MIL specifications. Rated 1500 volts peak. Impedance: 50 ohms. †Weather proof and tarnish resistant; plated to take constant handling; resistant to abrasion. Connector installation is easy, especially in tight spots. Simplify and speed wiring changes with the combination of features available.

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	Lgth., In.	EACH 1-9	10-24	25-99	100-Up
713-3311	UG-21B/U†	82-61	Plug	A	8, 9, 10	1⅞	3.43	2.74	2.14	1.75
713-3313	UG-23B/U	82-63	Jack	D	8, 9, 10	1 19/16	4.63	3.36	2.62	2.15
713-3314	UG-27A/U	82-64	Angle Adap.	B	.....	1⅞	8.85	6.44	5.02	4.12
713-3315	UG-29A/U	82-65	Adapter	E	.....	1¾	5.38	3.90	3.04	2.50
713-3330	UG-29B/U	82-101	Adapter	E	.....	1¾	5.28	3.84	3.00	2.46
713-3316	UG-30/U	82-66	Bulkhd. Adap.	G	.....	1⅝	9.73	7.08	5.52	4.53
713-3340	UG-57B/U	82-100	Adapter	F	.....	1 19/32	5.05	3.68	2.87	2.36
713-3336	UG-58A/U†	82-97	Panel Recept.	C	.....	1 7/64	2.93	2.34	1.83	1.50
713-3302	UG-107A/U	82-36	"T" Adapter	H	.....	2	12.33	8.96	6.99	5.73
713-9762	UG-536B/U†	34025	Plug	A	55, 58	1¾	3.45	2.50	1.95	1.60
713-3378	UG-680/U	82-831	Bulkhd. Recept.	S	.....	1 37/64	6.05	4.40	3.43	2.82

TYPE C COAXIAL CONNECTOR

Constant 50-ohm impedance. Peak voltage rating: 1500 volts. Dielectric withstanding voltage: 3000 V rms. Low Standing Wave Ratio (SWR) up to 10 GHz. Weatherproof.

Stock No.	Military No.	Mfr's Type	Descript.	Fig.	For RG/U Cables	Lgth., In.	EACH 1-9	10-24	25-99	100-Up
713-3364	UG-568/U	82-504	Panel Recept.	R	.....	1 3/32	5.68	4.12	3.21	2.64

UHF COAXIAL CONNECTORS

Low-cost, general purpose connectors for applications up to 300 MHz, where constant impedance is not necessarily required. Meet government specifications. Peak voltage rating: 500 volts. Twin contact types are for use with 2-conductor coaxial cables. †Supplied with tarnish-resistant Astro-Plate® finish.

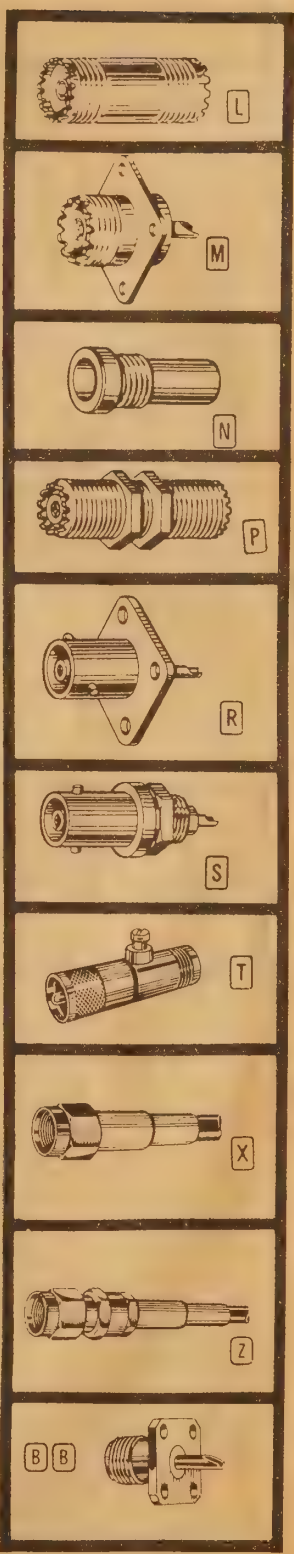
UHF SMALL SINGLE CONTACT

Stock No.	Military No.	Mfr's Type	Description	Fig.	For RG/U Cables	Lgth., In.	EACH 1-9	10-24	25-99	100-Up
713-3533	.....	83-23	Lghtng. Arrest.	T	.....	2 13/16	6.28	4.56	3.56	2.92
713-3550	UG-111/U†	83-750	Plug	J	59, 62, 71	1 1/16	2.13	1.70	1.33	1.09
713R3547	UG-175/U†	83-185	Red. Adap.	N	25, 55, 58	1	.33	.28	.21	.18
713-3545	UG-176/U†	83-188	Red Adap.	N	59, 62, 71	1	.38	.30	.23	.19
713-3556	UG-230/U, 49482	83-776	Plug	J	55, 59, 62, 71	1 3/16	5.15	3.74	2.92	2.39
713-3507	UG-363/U,PL-274†	83-1F	Str. Adap.	P	.....	2	5.33	3.88	3.03	2.48
713-3503	UG-646/U,M-359†	83-1AP	Angle Adap.	K	.....	1 3/32	2.88	2.31	1.80	1.48
713-3523	M-358, 49119†	83-1T	"T" Adap.	H	.....	1⅝	5.08	3.58	2.79	2.30
713-3535	M-359A, 49192	83-58	Angle Adap.	K	.....	1 27/32	4.98	3.62	2.82	2.32
713R3512	PL-258, 49191†	83-1J	Str. Adap.	L	.....	1⅛	1.70	1.36	1.06	.87
713R3519	PL-259, 49190†	83-1SP	Plug	J	8-13, 63, 65	1½	1.03	.91	.71	.58
713-3562	PL-259, 49190†	83-822	Plug	J	8, 9	1½	1.70	1.36	1.06	.87
713R3514	SO-239, 49194†	83-1R	Pnl. Recept.	M	.....	1 1/16	.90	.81	.63	.52
713-3516	SO-239	83-1RTY	†Pnl. Recept.	M	.....	.....	2.38	1.72	1.34	1.10

SMA CONNECTORS

Type 303 stainless steel, gold-plated. Contacts, beryllium copper, goldplated to .0001" thickness. 1000 volts rms dielectric. Frequency range: 0 to 18 GHz. Impedance: 50 ohms. Temperature range: —65°C to +165°C. *.141" diameter semi-rigid. Stainless steel connectors are exact equivalent to OSM, Americon and Sealectro.

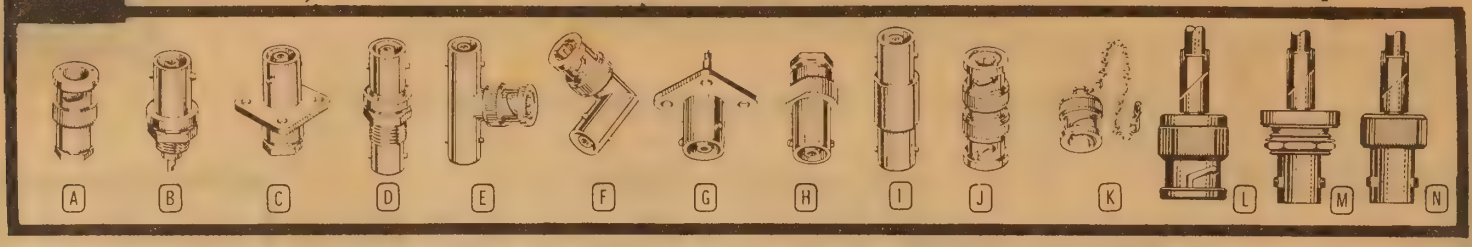
Stock No.	Mfr's Type	Description	Fig.	For RG/U Cables	Length In.	EACH 1-9	10-24	25-99	100-Up
713-4200	901-9183-1	Straight Plug*	X	.....	.330	2.93	1.97	1.62	1.34
713-4240	901-9601-3	Straight Plug	Z	174, 188A, 316	1.500	7.15	4.84	3.98	3.25
713-4260	901-9602-3	Straight Jack	.....	174, 188A, 316	1.437	7.33	4.95	4.07	3.32
713-4280	901-9215	Sq. Flange MTD.	BB	.....	.575	4.43	2.99	2.46	2.01



CONTACT YOUR NEAREST ALLIED ELECTRONICS OFFICE FOR MORE INFORMATION ON COAXIAL CONNECTORS, AND FOR PRICES ON LARGER QUANTITIES.

See Page 2 for the Allied Electronics Facility Nearest You

Coaxial, Chassis & Cable-Mount Connectors and Crimp Tool



BNC BAYONET COUPLED, TARNISH-RESISTANT (†) CONNECTORS

Rated 500 volts peak; 1500 V rms dielectric. Freq. range: 0-10 GHz.
†Non-tarnish Astro-Plate finish.

Stock No.	Military Type	Mfr's Type	Description	Fig.	For RG/U Cables	In. Lg.	EACH 1-9	10-24	25-99	100-Up
713R1003	UG-88/U†	31-002	Plug	A	55, 58	31/32	1.38	1.22	.95	.78
713-1025	UG-88B,U†	31-018	Plug	A	55, 58	31/32	1.73	1.38	1.08	.88
713-1041	UG-88C,U†	31-202	Plug	A	55, 58 142, 143	1 1/16	1.53	1.22	.95	.78
713-1007	UG-89/U†	31-005	Jack	H	55, 58	1 1/8	2.40	1.92	1.50	1.23
713-1046	UG-89B/U	31-205	Jack	H	55, 58	1 9/64	2.03	1.48	1.15	.95
713-1031	CW-123A,U†	31-026	Cap/Chain	K	.....	45/64	1.45	1.16	.90	.74
713-1008	CW-155/U	31-007	Cap Only	..	.....	37/64	.90	.66	.51	.42
713-9554	UG-185	4500	Pnl. Recp.	G	.....	15/64	2.97	2.16	1.68	1.38
713-1020	UG-254A/U	31-016	Bhd. Recp.	B	.....	1 15/32	11.48	8.34	6.51	5.34
713R1017	UG-260/U†	31-012	Plug	A	59, 62, 71	31/32	1.88	1.50	1.17	.96
713-1027	UG-260A/U†	31-021	Plug	A	59, 62, 71	1	1.95	1.56	1.22	1.00
713R1059	UG-260B/U†	31-212	Plug	A	59, 62, 71, 210	1 1/16	1.60	1.42	1.11	.91
713-1018	UG-261/U	31-015	Jack	H	59, 62, 71	1 1/8	3.05	2.22	1.73	1.42
713-1060	UG-261B/U	31-215	Jack	H	59, 62, 71	1 9/64	2.55	1.86	1.45	1.19
713-1014	UG-262U	31-011	Pnl. Jack	C	59, 62, 71	1 1/8	3.73	2.70	2.11	1.73
713R1010	UG-274 U†	31-008	"T" Adptr	E	.....	1 9/32	5.08	4.06	3.17	2.60
713R1053	UG-274A U†	31-208	"T" Adptr	E	.....	1 9/32	4.88	3.90	3.04	2.50
713R1005	UG-290/U†	31-003	Pnl. Recp.	G	.....	1 1/32	1.83	1.46	1.14	.93
713-1043	UG-290A†	31-203	Pnl. Recp.	G	.....	1 1/16	1.53	1.22	.95	.78
713-1000	UG-2912U	31-001	Pnl. Jack	C	55, 58	1 1/8	4.70	3.42	2.67	2.19
713R1013	UG-306/U†	31-009	Angle Adptr.	F	.....	1	4.63	3.70	2.89	2.37
713-1092	UG-447/U†	31-817	Pnl. Recp.	G	.....	1 1/32	2.78	2.02	1.58	1.29
713R1067	UG-491A/U†	31-218	Adapter	J	.....	1 1/4	3.98	3.18	2.48	2.04
713R1071	UG-492A/U†	31-220	Bkhd. Adptr.	D	.....	1 13/32	4.65	3.72	2.90	2.38
713R9571	UG-625/U†	5575	Bkhd. Recp.	B	.....	1 1/32	1.67	1.34	1.05	.86
713R1079	UG-625B/U	31-236	Bkhd. Recp.	B	.....	1 1/16	1.28	1.02	.80	.65
713-1035	UG-657/U†	31-102	Bkhd. Recp.	B	.....	1 19/64	2.25	1.80	1.40	1.15
713-1048	UG-909/U†	31-206	Bkhd. Jack	..	55, 58	1 1/8	3.00	2.18	1.70	1.40
713R1069	UG-914/U	31-219	Adapter	I	.....	1 9/32	2.30	1.84	1.44	1.18
713R1073	UG-1094/U†	31-221	Bkhd. Recp.	B	.....	1 1/16	1.05	.94	.73	.60
713-1099	UG-1094A U	31-2221	Bkhd. Recp.	B	.....	1 13/64	1.60	1.16	.90	.74

"BETWEEN SERIES" ADAPTERS

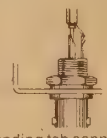
Provide positive connection between RF connectors. Non-constant impedance but minimal resistance

Stock No.	Military No.	Mfr's Type	Description	Lgth., In.	EACH 1-9	10-24	25-99	100-Up
713-1095	UG-201/U	31-830	N plug, BNC jack	1 19/32	5.68	4.12	3.21	2.64
713-1063	UG-210A/U†	31-216	N plug, BNC jack	1 5/16	3.53	2.56	2.00	1.64
713R1033	UG-273 U	31-028	BNC jack, UHF plug	1 3/16	2.70	2.16	1.68	1.38
713-1065	UG-394A/U†	31-217	N jack, BNC plug	1 9/16	5.75	4.18	3.26	2.68

"QUICK-CRIMP" BNC'S

For crimp or solder connection to cable. Even when center contact is crimped, connector maintains constant impedance. VSWR identical to std. solder-type BNC's up to 10,000 MHz. Connectors may be used with other than 50-ohm cable for non-impedance match. Rated 500 V. max. Imped., 50 ohms. VSWR—1.25:1 max. (straight plug & jack). Cable retentions equal to cable braid. Teflon dielectric. Bronze female and outer contact. Male contact and all other parts brass. Center contact gold plated; other parts silver plated. Av. shpg. wt. 2 oz.

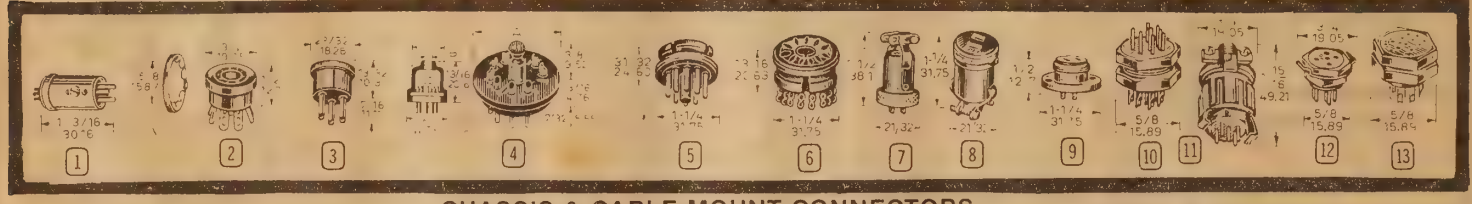
Stock No.	Mfr's Type	Fig.	Sim to UG/-U	Description	Use With Type RG/U Cable	EACH 1-9	10-24	25-99	100-Up
713R9784	36775	L	88E	Plug	58, 58A, 58C, 141	2.07	1.66	1.32	1.06
713-9785	36800	N	89C	Cable Jack	58, 58A, 58C, 59 A B, 62, 141	3.07	2.46	1.92	1.57
713-9818	68175	L	260B	Plug	59, 62, 71, 140, 210	2.07	1.66	1.30	1.06
713-9861	95725	M	909B	Bkhd. Jack	58, 58A, 58C, 59, 141, 210	4.92	3.94	3.07	2.52



ISOLATED BNC RECEPTACLE

Braid grounding tab connects cable braid through insulating material to connector outer conductor. Chassis and braid are electrically separate.

713-1012. Type 31-010 ..... 1-9 ... Each 2.25
10-24 ..... Each 1.80 25-Up ..... Each 1.40



CHASSIS & CABLE-MOUNT CONNECTORS

MINIATURE SPECIAL-PURPOSE CABLE CONNECTORS

Series 91: For shielded or unshielded cables. Black phenolic elements in cadm um-plated brass shells, held by set screws. Polarized contact spacing. Accommodates cables to ¼" dia. Suffix "L" in Type No.—long (1 3/16"); Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Contacts	Fig.	EACH 1-24	25-49	50-Up
713-4054	91-MPM3L	3	1	3.08	1.71	1.42
713-4059	91-MPM6L	6	1	2.23	1.22	1.02

MINIATURE SERIES 71 PLUGS, 78 SOCKETS

Series 78 are retainer-ring sockets that mount in 5/8" round or "D" hole. Black bakelite. Series 71 are compact, high-dielectric plugs. Nickel-plated brass prongs recessed to prevent shorts. Contacts polarized. Rated 5 amps at 500 V. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	Contacts	Fig.	EACH 1-24	25-49	50-99	100-Up
713-2925	78-S3S	3	2	.48	.31	.26	.22
713-2931	78-S6S	6	2	.85	.54	.45	.39
713-2355	86-71-3S	3	3	.45	.28	.24	.21
713-2374	86-71-6S	6	3	.60	.39	.32	.28

MINIATURE TYPE CP PLUGS FOR TUBE SOCKETS

Molded from diallyl phthalate; molded-in strain relief post. Retainer-ring mounting. Contacts gold over silver plating. 1500 V rms at 5 A. Overall seated height, 13/16". Overall width: 86-897, 7/8". Pin circle diameter: 9-pin, 15/32". Wt. 2 oz.

Stock No.	Mfr's Type	Description	Fig.	EACH 1-24	25-49	50-99	100-Up
713-3642	86-897	9-Pin with Cap	4	4.23	2.67	2.26	1.93

8 & 11-PIN PLUGS & SOCKETS

Mount in 1 11/64" keyed hole (use 8RO retainer ring). Type 8PB fits octal socket; 11RB takes 11PB plug. Type 16F snap-on shield fits all. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	Description	Fig.	EACH 1-9	10-24	25-49	50-Up
750-0962	8PB	8-Pin Plug	5	.63	.51	.43	.37
750-1025	11PB	11-Pin Plug	5	.83	.67	.48	.43
750-1027	11RB	11-Pin Skt.	6	.90	.67	.53	.45
750-1047	16F	Shield	..	2.18	1.78	1.51	1.20
750-0971	8RO	Ret. Ring	.....	.31	.29	.28	.25

2-CONTACT POLARIZED CONNECTORS

¾-24 threaded fittings. P-202-B and S-202-B have 1" mtg. ctrs. Prefix "P" denotes male, "S" female. Use S-202-B with P-202-CCT for cable extension. 3 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-9	10-24	25-49	50-Up
750R0403	P-202-CCT	7	1.98	1.71	1.36	1.16
750-0607	S-202-CCT	7	2.10	1.74	1.39	1.19
750-0402	P-202-B	9	2.40	2.17	1.77	1.51
750-0606	S-202-B	9	2.43	2.05	1.67	1.39
750-0608	S-202-CCT-THR	8	2.75	2.28	1.85	1.53

MINIATURE HEXAGON CONNECTORS

Contacts gold-filled. Hdw. nickel plated brass. Voltage breakdown: 5000 V rms, 60 Hz at sea level. Current rating: 7.5 amps. Hex-nut types are for panel mounting in .5156" hole. Locking-clip types mate with hood and cable-clamp types. Locking ring on cable clamp swivels 30°. Hex-nut types are ⅝" dia.; cable-clamp types ¾" dia. (length, 1 15/16"). Av. shpg. wt. 5 oz.

Stock No.	Mfr's Type	Contacts	Type	Fig.	EACH 1-9	10-49	50-Up
713-4500	126-010	5	Male Recep.	10	1.98	1.31	.95
713-4515	126-191	7	Male Recep.	10	2.28	1.51	1.09
713-4502	126-012	9	Male Recep	10	2.73	1.81	1.30
713-4526	126-217	5	Male Plug	11	4.28	2.82	2.04
713-4517	126-195	7	Male Plug	11	4.70	3.12	2.25
713R4529	126-220	9	Male Plug	11	5.10	3.36	2.43
713-4525	126-216	5	Male Recp.	12	2.05	1.35	.98
713-4519	126-197	7	Male Recp.	12	2.50	1.65	1.19
713-4528	126-219	9	Male Recp	12	2.83	1.87	1.35
713-4501	126-011	5	Fem. Recp.	11	2.75	2.06	1.48
713-4516	126-192	7	Fem. Recp	11	3.88	2.57	1.86
713-4503	126-013	9	Fem. Recp.	11	4.85	3.20	2.31
713-4532	126-223	5	Fem. Plug	13	5.41	3.61	2.60
713-4518	126-196	7	Fem. Plug	13	6.35	4.20	3.02
713-4531	126-222	9	Fem. Plug	13	7.25	4.79	3.45
713-4527	126-218	5	Fem. Recp	12	3.28	2.16	1.56
713-4520	126-198	7	Fem. Recp	12	4.18	2.75	1.98
713-4530	126-221	9	Fem. Recp	12	5.10	3.36	2.43

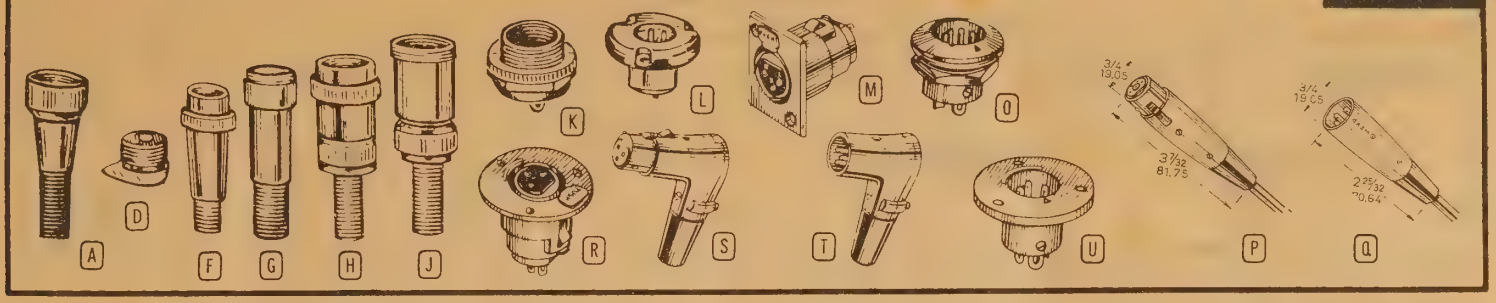
TWIN HEX CRIMP TOOL

Order tool frame* plus the die set† required from table below.

Stock No.	Mfr's Type	Military No.	Connector Series	For RG/U Cable	EACH 1-4	5-Up
713-6200	227-944*	M22520/5-01			147.50	104.00
713-6210	227-1221-11†	M22520/5-11	BNC TNC	55, 58	63.16	44.50
713-6220	227-1221-13†	M22520/5-13	BNC TNC	59, 62	63.16	44.50



Audio Connectors and Adapter Kit



SERIES 75 SINGLE-BUTTON-CONTACT TYPES

Standard connectors with 5/8". 27 threads. Types marked with * require 3/8" mounting holes. Average shipping weight: 4 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-Up
713-2710	80-75-MC1F	A	Straight plug	3.08	1.71	1.42
713-2740	80-75-PC1M*	D	Receptacle open	2.63	1.45	1.21

SERIES 80 SINGLE AND DOUBLE-PIN-CONTACT TYPES

For shielded cables, single and two-conductor coaxial cables, photo cell leads, etc. Center contacts are pin and socket type. *Single-contact. †Polarized, double-contact. Average shipping weight, 4 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-Up
713-3100	*80-C	K	Female recept.	2.58	1.42	1.18
713-3104	*80-M	F	Male cable plug	3.60	2.00	1.66
713-3106	†80-MC2F	G	Fem. cable jack	4.08	2.25	1.88
713-3107	†80-MC2F1	F	Fem. cable plug	5.12	2.83	2.36
713R3105	†80-MC2M	F	Male cable plug	2.30	2.06	1.72
713-3109	†80-MC2M1	G	Male cable jack	3.85	2.13	1.77
713-3110	80-PC2F	K	Female recept.	2.08	1.58	1.31
713-3111	†80-PC2M	K	Male receptacle	1.98	1.51	1.26

SERIES 91—3, 4 AND 6-CONTACT TYPES

Microphone connectors for use with portable equipment. Threaded coupling provides positive mating. Polarized for correct insertions. Clamps eliminate stress on soldered connections. Brass shell with chrome plating, black phenolic dielectric. Receptacles mount in 27/32" hole on panels up to 1/8" thick. *3-contact type. †4-contact type. ‡6-contact type. Wt. 4 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-Up
713-4011	*91-MC3F	J	Fem. cable jack	5.35	2.96	2.47
713-4012	*91-MC3F1	H	Fem. cable plug	5.48	3.03	2.52
713-4013	*91-MC3M	H	Male cable plug	3.73	2.83	2.36
713-4033	*91-PC3F	K	Female recept.	3.05	2.32	1.93
713-4035	*91-PC3M	K	Male receptacle	3.43	1.90	1.58
713-4017	†91-MC4F	J	Fem. cable jack	5.48	3.03	2.52
713-4018	†91-MC4F1	H	Fem. cable plug	5.48	3.03	2.52
713R4019	†91-MC4M	H	Male cable plug	3.68	2.80	2.33
713-4034	†91-PC4F	K	Female recept.	2.83	2.16	1.80
713-4037	†91-PC4M	K	Male receptacle	3.50	1.93	1.61
713-4025	‡91-MC6F	J	Fem. cable jack	6.18	3.41	2.84
713-4027	‡91-MC6M	H	Male cable plug	3.35	2.54	2.12
713-4043	‡91-PC6F	K	Female recept.	4.60	2.54	2.12

3 AND 4-CONTACT PLUGS AND RECEPTACLES

Up to 3 circuit contacts plus electrically integrated ground terminal on shell. Neoprene cable strain relief bushing keyed to shell, ribbed for easy access to male plugs. Die-cast zinc alloy with satin-nickel finish. Series 91 locked connection releases with light pressure on lock button. Gold-plated (over silver) bronze contacts. ‡ABS molded plastic with lustrous nickel plating. *Single hole mounting. Wt. 2 oz. except † 4 oz.

Stock No.	Mfr's Type	Cannon Equivalent	Fig.	Description	EACH 1-24	25-49	50-99	100-Up
713R4062	‡91-454	XLR-3-11C	P	3-con. Fem. Plug	2.59	1.79	1.51	1.35
713R4066	‡91-453	XR-3-12C	Q	3-con. Male Plug	2.20	1.51	1.28	1.13
713-4070	‡91-458	XLR-4-11C	P	4-con. Fem. Plug	3.33	2.27	1.89	1.69
713-4074	‡91-457	XLR-4-12C	Q	4-con. Male Plug	2.53	1.67	1.44	1.25
932-0009	B3M	XLR-3-14N	O	*3-con. Male Recpt.	3.60	2.40	2.20	2.00
932R0012	C3M	XLR-3-134	U	3-con. Male Recpt.	1.72	1.29	1.18	1.08
932R0011	C3F	XLR-3-13	R	3-con. Fem. Recpt.	3.44	2.58	2.37	2.15
713R4078	‡91-456	XLR-3-31	M	3-con. Fem. Recpt.	3.74	2.49	2.13	1.85
713-4087	‡†91-859	.....	L	3-con. Male Recpt.	2.74	1.81	1.56	1.36
713-4091	‡†91-859	.....	L	4-con. Male Recpt.	2.98	1.96	1.69	1.48

3-CONTACT RIGHT-ANGLE CONNECTORS

Right-angle configuration to reduce "cable clutter." Neoprene cable strain relief bushing keyed to shell, ribbed. Die-cast zinc alloy with satin-nickel finish. Wt. 2 oz.

Stock No.	Mfr's Type	Cannon Equivalent	Fig.	Description	EACH 1-9	10-24	25-49	50-Up
932-0160	R3F	XLR-3-15	S	Female Plug	6.63	4.41	4.04	3.68
932-0161	R3M	.....	T	Male Plug	6.08	4.05	3.71	3.38



STRAIGHT CORD PLUG WITH ON/OFF SWITCH

Built-in switch permits instant fingertip control of audio. Provides inline DPDT control of 3-conductor of circuits Switch rated 1 amp, 125 VAC or 0.5 amp., 125 VDC. Female connector has quick-ground feature. Wt. 2 oz.

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-49	50-Up
932-0203	T3F	3-con. plug	8.95	5.97	5.47	4.98



JACK COVERS

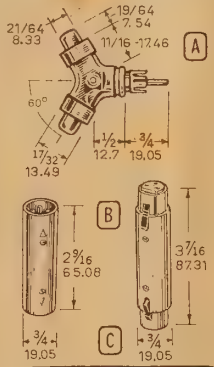
Spring loaded. For use with regular 3/8"-32 threaded bushing jacks. Locknut seals into rubber washer inside cover. Shipping wt. 3 oz.

Stock No.	Mfr's Type	Color	EACH 1-9	10-24	25-49	50-Up
932-1280	512	Nickel	1.88	1.20	1.10	1.00
932-1283	515	Black	1.88	1.20	1.10	1.00
932-1287	520	Gray	1.88	1.20	1.10	1.00

PLUG AND JACK CONNECTORS

JACK ADAPTERS AND CONNECTORS

330F connects 2 phono plugs in parallel to a std. phono plug. 389 3-contact mike receptacle input to same output. 390 3-pin mike plug to equipment with this output. 4 oz.

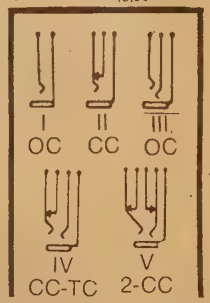


Stock No.	Mfr's Type	Fig.	Descrip.	EACH 1-9	10-24	25-49	50-Up
932-1103	330F	A	2 Phono Pin Jacks: Phono Pin Plug	2.58	1.71	1.57	1.43
932R1219	389	B	Double-ended 3-contact recpt.	5.98	3.99	3.66	3.33
932R1220	390	C	Double-ended 3-pin plug	5.05	3.36	3.08	2.80

331A ADAPTER KIT



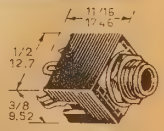
932-1108. 11 audio adapters, 1 cable. 1 Ea.: 25AF25—36" shielded cable, plug each end; 25Y mike-con., Y adapt.; 330F1 Y adapt.; 332A, 2-cond. phone jack for F mike out-put; 334A, phone jack to phono plug; 336A, phone in. to phone out.; 336B phone in. to jack out.; 345 jack in. to plug out. 2 Ea.: Type 44 adapt.; M mike to phone plug: 349 coupler, phono jacks each end. Wt. 1 lb..... 18.68



JACK SCHEMATIC DIAGRAMS

See above, OC indicates open circuit; CC, closed circuit; TC, transfer circuit.

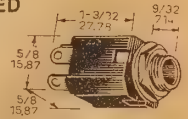
SUBMINIATURE ENCLOSED PHONE JACK



Completely enclosed, subminiature 2-cond. phone jacks. Fully insulated molded plastic housing protects nickel-plated contact springs. 5/8" depth behind panel. Bushing 1/4"-32 threaded × .203" long. 2 oz.

Stock No.	Mfr's Type	Diagram	EACH 1-9	10-24	25-49	50-Up
868-0975	311ENC	II	.48	.39	.34	.29

STANDARD ENCLOSED PHONE JACKS



High density phone jack. Only 5/8" sq., 7/8" grams. Nickel-silver-plated springs. Mnt. in 3/8" hole, panels to 5/32" thick. Take std. 2/3-cond. 1/4" plugs. Hardware incl. *For stereo. Wt. 2 oz.

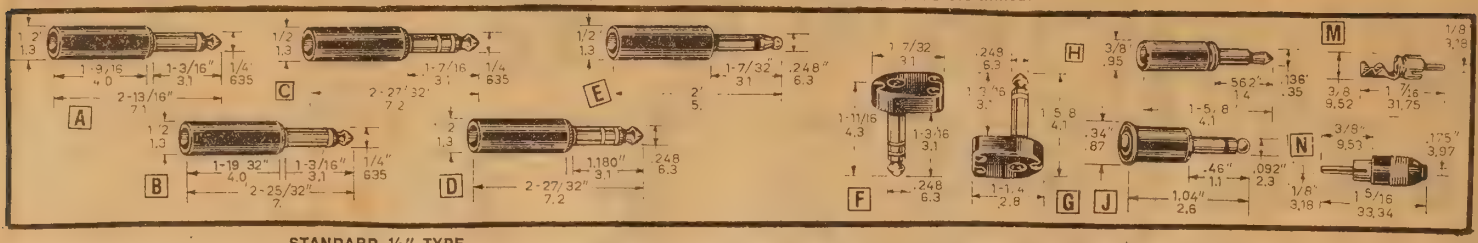
Stock No.	Mfr's Type	Diagram	EACH 1-9	10-24	25-49	50-Up
2-CONDUCTOR TYPES						
868R0940	336ENC	I	.61	.49	.42	.36
868R0941	337ENC	II	.83	.66	.52	.45
3-CONDUCTOR TYPES						
868R0942	338ENC	III	.83	.66	.53	.46
932-0944	113B	IV	.90	.60	.55	.50
868R0952	*335ENC	V	.90	.72	.65	.53

See Page 2 for the Allied Electronics Facility Nearest You

Allied® Phone, Phono, Extension Plugs and Jacks

PHONE PLUGS

Made to standard dimensions to mate with all standard items. Nickel-plated brass and Delrin. Solder connections are tinned.



STANDARD ¼" TYPE

Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868R3001	1300B	A	Black	2-cond. Screw term.	.73	.59	.49	.42
868-3002	1300R		Red	Mates w/jacks 3360, 3370	.73	.59	.49	.42
868-3003	1300M		Metal		1.15	.98	.82	.68
868-3010	1301B	B	Black	2-cond. Solder term.	.95	.68	.49	.42
868-3011	1301R		Red	Mates w/jacks 3360, 3370.	.95	.68	.49	.42
868-3012	1301M		Metal		1.15	.93	.77	.67
868R3020	1302B	C	Black	3-cond. Solder term.	.93	.80	.64	.51
868-3021	1302R		Red	Mates w/jacks 3380,3390.	.93	.80	.64	.51
868-3022	1302M		Metal		1.45	1.19	.99	.84
868-3030	1303B	D	Black	3-cond. Screw term.	1.45	1.14	.93	.79
868-3031	1303R		Red	Mates w/jacks 3380, 3390.	1.45	1.14	.93	.79
868-3032	1303M		Metal		1.85	1.40	1.18	1.03
868-3051	3060B	F	Black	Right angle type. 3-cond. Screw Terminals. Mates, 3380, 3390.	1.30	.94	.78	.70
868-3060	3090B	G	Black	Right angle type. 2-cond. Mates with 3360 and 3370.	1.10	.86	.67	.58

MILITARY SPECIFICATION TYPE

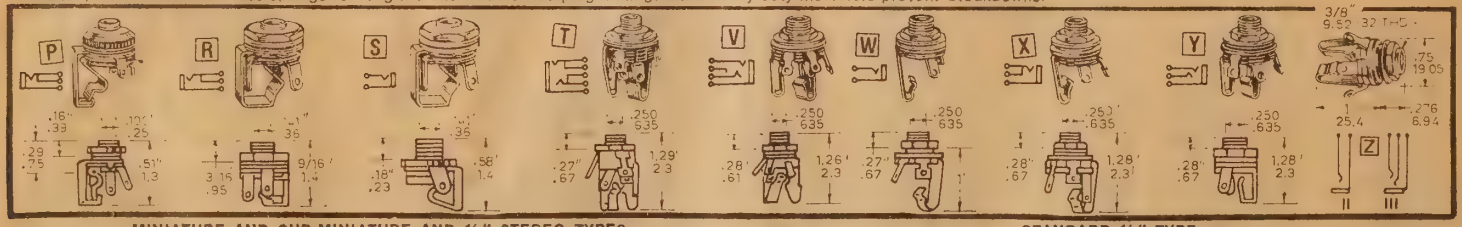
Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868-3040	3040B	E	Black	Mil PJ055 2-cond. Solder Term	2.10	1.35	1.20	1.03

MINIATURE AND SUB-MINIATURE TYPES

Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868R3054	3070B	H	Black	2-cond. Solder Terminals.	.82	.55	.45	.40
868-3056	3070R		Red	Mates w/3110 and 3130.	.82	.55	.45	.40
868-3055	3070M		Metal		.99	.72	.60	.52
868R3057	3080B	J	Black	2-conductor. Solder Term.	.50	.30	.26	.24
868-3059	3080R		Red	Mates with jack 3100.	.50	.30	.26	.24
868-0044	44A	M	Metal	Phono Plug.	.17	.13	.11	.09
868-1522	60BR	N	Red	Plug.	.28	.14	.13	.12
868-1523	60BB		Black	Plug.	.28	.14	.13	.12
868-1526	60BW		White	Plug.	.33	.14	.13	.12

PHONE JACKS

Nickel-plated brass and brass springs for long life and trouble-free plug mating. Extra-heavy duty insulators prevent breakdowns.

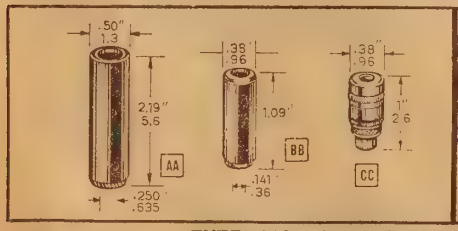


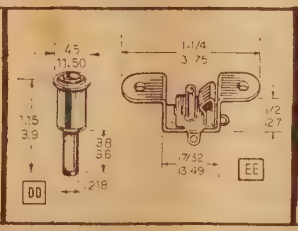
MINIATURE AND SUB-MINIATURE AND ¼" STEREO TYPES

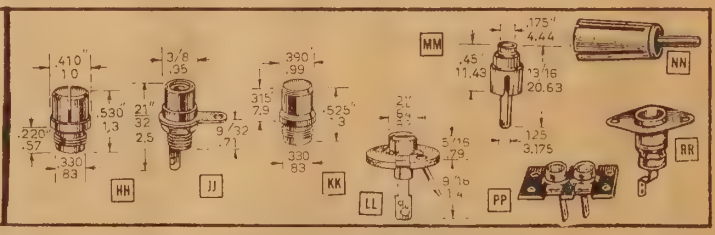
Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868-3063	3100	P	Metal	2-conductor. Fits plug 3080.	.29	.27	.25	.24
868-3064	3110	R	Metal	2-cond. Closed circuit. Fits plug 3070.	.55	.35	.29	.26
868-3066	3130	S	Metal	2-cond. Open circuit. Fits plug 3070	.55	.33	.28	.25
868-3350	3350	T	Metal	Stereo Phono Jack. Fits Plugs 1302, 1303, 3060.	1.60	1.17	.99	.85
920-0350	275	Z	Metal	2-cond. for Std. ¼" Plugs (II)	.74	.59	.49	.42
932-0015	C-128	Z	Metal	3-cond. for 480 Mil-Type JJ-033 (III)	1.13	.64	.60	.56

STANDARD ¼" TYPE

Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868-3390	3390	V	Metal	3-cond. Closed Circuit. Fits 1302, 1303, 3060.	1.15	.93	.78	.67
868R3360	3360	W	Metal	2-cond. Open Circuit. Fits 1300, 1301, 3040, 3090.	.53	.46	.38	.33
868R3370	3370	X	Metal	2-cond. Closed Circuit. Fits 1300, 1301, 3040, 3090.	.88	.70	.58	.48
868R3380	3380	Y	Metal	3-cond. Open Circuit. Fits 1302, 1303, 3060.	.83	.66	.55	.46







EXTENSION IN-LINE PHONO JACKS

STANDARD ¼" TYPE

Stock No.	Mfr's Type	Fig.	Color	Description	EACH 1-99	100-499	500-999	1000-Up
868-3401	6101	AA	Metal	2-conductor.	1.38	1.10	.92	.78
868-3403	6103	BB	Metal	3-conductor.	1.68	1.32	1.10	.94
				MINIATURE				
868-3405	6105	CC	Metal	2-conductor.	1.45	.90	.74	.64

AC ADAPTER COAXIAL JACKS/PLUGS

Stock No.	Mfr's Type	Fig.	Color	Description	Use With	EACH 1-99	100-299	300-499	500-Up
868-6200	6-200	DD	Green	.080I.D./.218O.D.	6-200P	.76	.61	.51	.43
868-6201	6-201	DD	Red	.097I.D./.218O.D.	6-200P	.46	.37	.30	.28
868-6202	6-202	DD	Blue	.080I.D./.195O.D.	6-201P	.75	.51	.46	.42
868-6203	6-203	DD	Tan	.097I.D./.195O.D.	6-201P	.75	.51	.46	.41
868-6204	6-200P	EE	.....	Plug	6-200, 6-201	.52	.35	.31	.29
868-6205	6-201P	EE	.....	Plug	6-202, 6-203	.52	.35	.31	.29

PHONO PLUGS AND JACKS

Precision shape guarantees firm contact. Well-anchored insulators prevent turning and wires pulling loose.

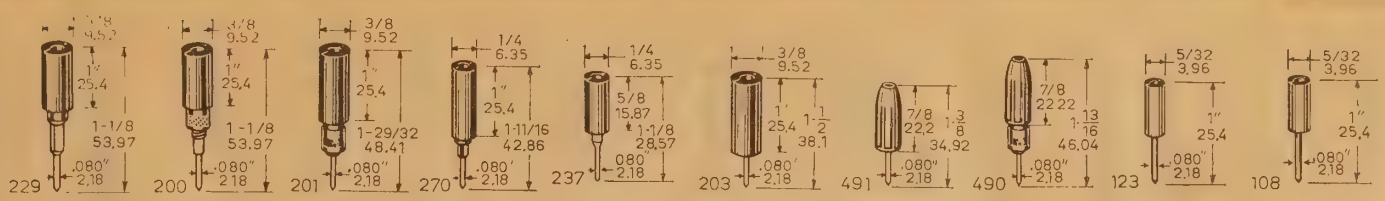
Stock No.	Mfr's Type	Fig.	Description	EACH 1-99	100-499	500-999	1000-Up
868-3396	5005	HH	Phono Plug. ¼" size. Shielded handle.	.55	.44	.37	.31
868-3400	3400	JJ	Phono Jack. Front mount in ⅜" hole.	.36	.25	.21	.18
868-3397	5006	KK	In-line Phono Jack.	.55	.44	.37	.31
920-1200	1200	NN	Phono Plug. ⅛" size for coaxial antenna lead-in to auto radio.	.20	.16	.14	.12
920-1214	1214	PP	RCA-type Phono Jack 1½x1" Base.	.20	.16	.14	.12
920-1207	1207	RR	Motorola F conn. Jack. 15/32" hole	.27	.22	.18	.15

Jack mounted on 1/16" bakelite disc; 11/16" mtg. centers. Shielded pin and plug has 1/8" pin dia., 9/16" long.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-99	100-499	500-999	1000-Up
868-0424	318	LL	Jack. Motorola type	.15	.11	.09	.07
868-0425	36A	MM	Plug. Motorola type	.09	.08	.06	.05

For Fast, Dependable Service, Call Your Nearest Allied Electronics Facility

Allied® Tip Plugs, Jacks, Lug Adapters



Allied Electronics' own tip plugs and jacks are insulated and non-insulated types. Allied Electronics' own lug adapter is insulated type. All types are accurately molded and machined of U.S.A.-made materials, then rigidly inspected to assure and insure precision quality. Check our wide selection for all your electronic requirements . . . commercial, industrial, military. Tip jacks are supplied with hex mounting nut.

INSULATED TIP PLUGS

Feature nickel-plated brass construction for heavier current applications. Handles are molded phenolic except Type 237, molded butyrate; Types 490 and 491, molded nylon; and Type 270, fibre. 12 amps AC. Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-0277	229	Red	Std. tip; large dia. for soldering heavy-duty wire into nickel-plated brass body.	.35	.28	.23	.20
920-0278	229	Black		.35	.28	.23	.20
920-8000	200	Red	Solderless; wire tightens securely under knurled collar.	.34	.27	.23	.20
920-8001	200	Black		.34	.27	.23	.20
920-0202	201	Red	"Jr." solderless phone tip; wire fastens under knurled collar.	.34	.27	.23	.20
920-0203	201	Black		.34	.27	.23	.20
920-0327	270	Red	Submin.; std. tip, extra small dia.	.41	.32	.27	.23
920-0328	270	Black		.41	.32	.27	.23
920-0289	237	Red	Hollow phone tip, solder-type.	.14	.11	.09	.08
920-0290	237	Black		.14	.11	.09	.08
920-0216	203	Red	Short tip plug for applications where minimum metal can be exposed.	.30	.24	.20	.17
920-0217	203	Black		.30	.24	.20	.17

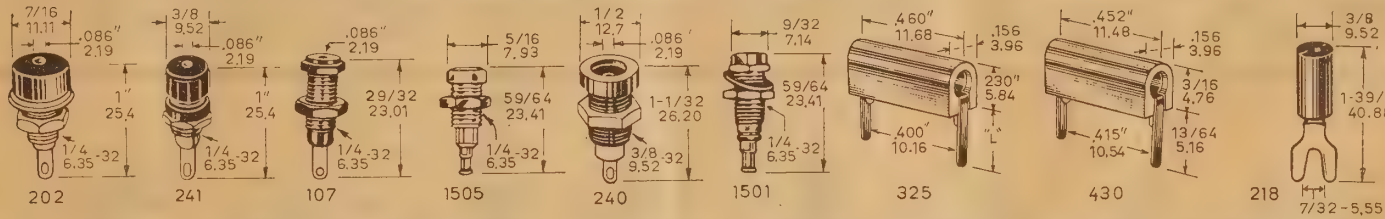
INSULATED TIP PLUGS (Cont'd)

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-0578	491	Red	Short, tip plug (⅞" handle).	.31	.25	.21	.18
920-0577	491	Black	Inserts flush, no metal	.31	.25	.21	.18
920-0590	491	Yellow	exposed, Molded nylon	.31	.25	.21	.18
920-0580	491	Green	handle.	.31	.25	.21	.18
920-0575	490	Red	Solderless tip plug with molded	.34	.27	.23	.19
920-0576	490	Black	nylon handle. Threaded type.	.34	.27	.23	.19

NON-INSULATED TIP PLUGS

Nickel-plated brass phone tip plugs. Fit standard phone tip jacks. Type 123 .159" inside dia. for larger wire. Rated 12 amps AC, 10°C temp. rise, continuous duty. Av. shpg. wt. 2 oz.

920-0123	123	Nickel-plated	Heavy-duty solder-type.	.18	.13	.12	.11
920-0108	108	Nickel-plated	Std. solid phone tip. Solder type.	.07	.06	.05	.04



INSULATED TIP JACKS

Molded heads with nickel-plated brass bodies. Phosphor-bronze contacts. Mount in 5/16" hole. With nut. 750 volts 60 cycle AC continuous working voltage. Capacitance 4.0 pf. **Type 202:** rated 15 amps AC for 10°C temp. rise, continuous duty. **Type 241:** rated 12 amps AC for 10°C temp. rise, continuous duty. Each 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-0181	202	Red	With phosphor-bronze spring.	.32	.26	.22	.19
920-0208	202	Yellow	Supplied with extruded fiber	.32	.26	.22	.19
920-0206	202	Green	washer for insulated	.32	.26	.22	.19
920-0207	202	Blue	mounting in panel to ⅜" thick.	.32	.26	.22	.19
920-0182	202	Black	Molded phenolic head.	.32	.26	.22	.19
920-0292	241	Red	Supplied with molded nylon	.51	.41	.34	.31
920-0293	241	Black	head, washer.	.51	.41	.34	.31

NON-INSULATED TIP JACK

All metal. Nickel-plated brass body, phosphor-bronze contact. With nut. Rated 15 amps AC for 10°C temperature rise, continuous duty. Shpg. wt. 2 oz.

920-0107	107	Nickel-plated	Mounts in ¼" hole; fits panels to ⅜" thick.	.38	.30	.25	.23

NYLON-INSULATED TIP JACKS

Each has self-insulating nylon-insulated body. Hex nuts are nickel-plated brass. All accommodate standard phone tip plugs. All rated 15 amps AC for 10°C temperature rise, continuous duty, except **Type 240** rated 10 amps AC. **Type 1501** has a metal shell to prevent stripped threads. Average shipping wt. each 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-1512	1505	Black	All nylon body.	.36	.29	.24	.22
920-1516	1505	Yellow	Wrap-around type. Hex head.	.36	.29	.24	.22
920-1514	1505	Green	Mount in ¼" hole in panels	.36	.29	.24	.22
920-1515	1505	Blue	to ¼" thick.	.36	.29	.24	.22
920-1513	1505	Red		.36	.29	.24	.22
920-0294	240	Red	Ph. br. spring. For ⅜" hole,	.34	.27	.23	.20
920-0295	240	Black	to 5/16" panel. Rated 5000V.	.34	.27	.23	.20
920-8012	1501	Red	Metal Shell.	.49	.39	.32	.29
920-1501	1501	Black	Wrap-around type made	.49	.39	.32	.29
920-1502	1501	White	to MIL-C-39024/10.	.49	.39	.32	.29

RIGHT ANGLE STANDARD AND MIL-TYPE TEST JACKS

Accept standard .080" dia. probe tips at either end. Snap into .052" dia. holes on .400" centers. Type 430 is for use with PC boards up to 3/16" thick .410-.420" ctrs. Type 325 is for use with PC boards up to 1/16" thick. Type 430 is tested to **MIL-P-20693A** for nylon; **MIL-STD-202B** for mechanical tests. Type 325 is made to meet **MIL-C-39024/11.** Both units rated at 5 amps and 1.5 kV, 60 Hz continuous. Both units can be spaced side-by-side .160" on center minimum. 2 oz.

Stock No.	Mfr's Type	Color	EACH 1-99	100-299	300-499	500-Up
920-0435	325	White	.20	.16	.14	.12
920-0430	325	Red	.20	.16	.14	.12
920-0429	325	Black	.20	.16	.14	.12
920-0432	325	Green	.20	.16	.14	.12
920-0433	325	Blue	.20	.16	.14	.12
920-0431	325	Yellow	.20	.16	.14	.12
920-0539	430	White	.20	.16	.14	.12
920-0532	430	Red	.20	.16	.14	.12
920-0530	430	Black	.20	.16	.14	.12
920-0535	430	Green	.20	.16	.14	.12
920-0536	430	Blue	.20	.16	.14	.12
920-0534	430	Yellow	.20	.16	.14	.12

INSULATED SPADE LUG ADAPTER

Banana plug to spade lug adapter. Molded butyrate handle meets Federal Specification L-P349A, Type 3, Class MS, in red or black. Electro tinned steel lug .020" thick. Tapered slot fits all standard binding posts and terminal screws from ¼" diameter to #6 diameter. Accepts standard banana plugs in rear. Solder bridge for wire connection up to No. 18 American Wire Gauge. Rated 15 amps AC for 10°C temperature rise, continuous duty.

Stock No.	Mfr's Type	Color	EACH 1-99	100-299	300-499	500-Up
920-0250	218	Red	.14	.11	.09	.08
920-0251	218	Black	.14	.11	.09	.08

NYLON IN-LINE TIP JACK

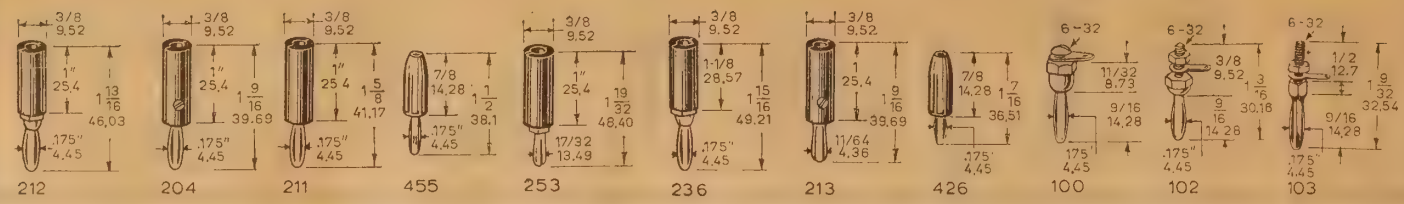
Molded nylon handle and body meets MIL-P-20693A, in red and black. Gold plated phosphor bronze contacts. Accepts all standard phone-tip plugs. With recessed contact for safe connection. Ideally suited for use in patch and extension cords. Can also be used for panel mounting where wrap-around terminal connection must be insulated at rear. Rated 15 amps AC for 10°C temperature rise, continuous duty, 5 KV 60 cycle AC continuous working voltage.

Stock No.	Mfr's Type	Color	EACH 1-99	100-299	300-499	500-Up
920-9031	1513-102	Red	.45	.36	.30	.27
920-9032	1513-103	Black	.45	.36	.30	.27

Allied Has The Plugs, Jacks and Lug Adapters To Fill Your Electronic Requirements

Write, Wire or Phone Allied Electronics for Larger Quantity Prices

Allied® Banana Plugs and Jacks



INSULATED BANANA PLUGS

Insulated banana plugs with unbreakable plastic handles. All are machined of the best materials, and inspected. Have sufficient spring tension to assure good holding power and minimum contact resistance. Nickel plated. Average shpg. wt. 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920R0190	212	Red	4-leaved phosphor-bronze sprg. hex brass body. Sep. internal brass stud for solderless or solder connection.	.47	.38	.31	.27
920-0241	212	Yellow		.47	.38	.31	.27
920-0239	212	Green		.47	.38	.31	.27
920-0240	212	Blue		.47	.38	.31	.27
920R0191	212	Black		.47	.38	.31	.27
920R0192	204	Red	4-leaved phosphor-bronze nickel-plated sprg. Lead wire conn. with set screw thru handle.	.41	.32	.27	.23
920-0215	204	Yellow		.41	.32	.27	.23
920-0213	204	Green		.41	.32	.27	.23
920-0214	204	Blue		.41	.32	.27	.23
920R0193	204	Black		.41	.32	.27	.23
920R0194	211	Red	4-leaved phosphor-bronze nickel-plated spring. Wire solders to plug or stud; or stud locks wire for solderless connection.	.41	.32	.27	.23
920R0195	211	Black		.41	.32	.27	.23
920-0236	211	Yellow		.41	.32	.27	.23
920-0234	211	Green		.41	.32	.27	.23
920-0235	211	Blue		.41	.32	.27	.23
920-0231	211	White		.41	.32	.27	.23
920R0196	455	Red	4-leaf phosphor-bronze Nylon. Solderless.	.42	.33	.28	.24
920R0197	455	Black		.42	.33	.28	.24

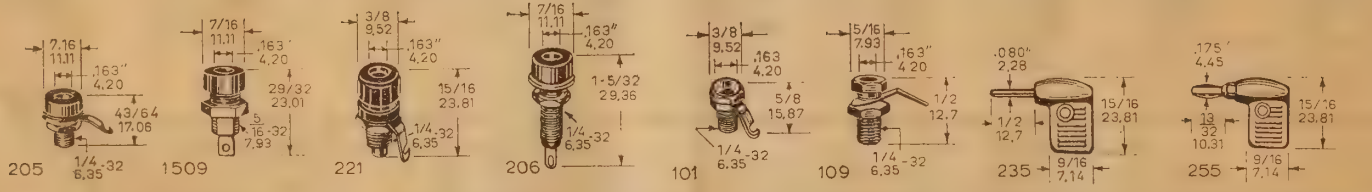
INSULATED BANANA PLUGS (Cont'd)

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-0305	253	Red	Split type with internal brass stud for solderless or soldered connection.	.43	.35	.29	.25
920-0306	253	Black		.43	.35	.29	.25
920-0284	236	Red	4-leaved ni.-plated phos.-br. sprg. Threaded space for solderless conn.	.84	.67	.56	.48
920-0285	236	Black		.84	.67	.56	.48
920-0242	213	Red	Cross-slotted body. Lead wire conn. with set scr.	.38	.30	.25	.21
920-0243	213	Black		.38	.30	.25	.21
920-0526	426	Red	4-leaf, phos. bronze spring Nylon. Midget.	.38	.30	.25	.21
920-0527	426	Black		.38	.30	.25	.21

NON-INSULATED BANANA PLUGS

Feature four-leaved, phosphor-bronze nickel plated springs. Each is supplied with terminal lug and hex nut. Shpg. wt., 2 oz.

920-0103	103	Nickel-plated	Threaded-shank type.	.39	.31	.26	.22
920-0198	100	Nickel-plated	Panel-mtg. type; 6-32 tapped body. Intern'l threads for panel use.	.45	.36	.30	.25
920-0199	102	Nickel-plated	Threaded-shank type; 4-leaf phosphor-bronze spring.	.46	.37	.31	.26



INSULATED BANANA JACKS

Heavy-duty, molded body. Supplied with fiber washer. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920R0200	205	Red	Plastic head; nickel-plated brass body. For 5/16" hole, panels up to 3/8" thick.	.27	.22	.18	.15
920-0220	205	Yellow		.27	.22	.18	.15
920-0218	205	Green		.27	.22	.18	.15
920-0219	205	Blue		.27	.22	.18	.15
920R0201	205	Black		.27	.22	.18	.15
920R1521	1509	Red	Molded nylon jack. Locks into panel by means of double "D" body. For 5/16" hole, panel to 5/16".	.20	.16	.14	.12
920R1522	1509	Black		.20	.16	.14	.12
920-1525	1509	Yellow		.20	.16	.14	.12
920-1523	1509	Green		.20	.16	.14	.12
920-1524	1509	Blue		.20	.16	.14	.12
920-1520	1509	White		.20	.16	.14	.12
920-0258	221	Red	Nylon head; fit 3/16" mtg. hole; for panels up to 1/4"	.51	.41	.34	.29
920-0259	221	Black		.51	.41	.34	.29
920-0221	206	Red	Plastic head; nick.-plated brass body; takes ban. plug or tip plug; phos.-bronze spring. For 1/4" hole, up to 5/8" panel.	.43	.35	.29	.25
.....	...	....					
920-0223	206	Green		.43	.35	.29	.25
.....	...	....					
920-0222	206	Black		.43	.35	.29	.25

NON-INSULATED BANANA JACKS

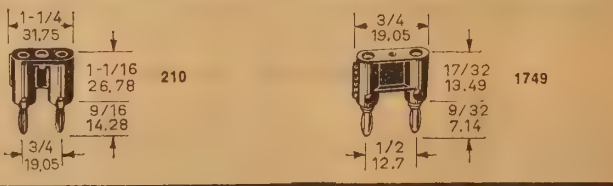
Bare brass, nickel-plated body. Fits 1/4" hole. 3/8" panel. Hex nut. 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920-0101	101	Metal	Tinned lug.	.26	.21	.17	.15
920-0109	109	Metal	With solder lug.	.26	.21	.17	.15

MOLDED RIGHT-ANGLE METER PLUGS

Right-angle plugs with plastic handles. Half shells assemble with one screw and nut. Lead wire solders to body. *Nickel-plated. Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Color	Description	EACH 1-99	100-299	300-499	500-Up
920R0307	255	Black	4-leaved phosphor-bronze springs.* Banana.	.65	.52	.43	.37
920R0308	255	Red		.65	.52	.43	.37
920-0280	235	Black	Maximum wire insulation, 3/64". Phone tip.	.47	.38	.32	.27
920-0281	235	Red		.47	.38	.32	.27



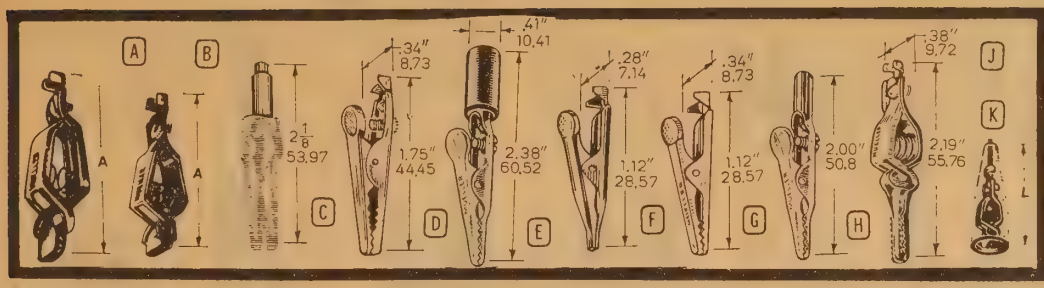
MOLDED DOUBLE BANANA PLUGS

Molded as single unit for banana jacks. Can be stacked for multiple connections. Molded polystyrene body per Fed. Spec. L-P416, Type 1. Nickel-plated brass plug. Takes wire to #12. 15-amp. rating. Shpg. wt. 3 oz.

Type 210. Standard Black Plug. 3/4" centers; overall (15/16"×1 3/4").
920R0230. 1-24 ..... Each 1.62 25-49 ..... Each 1.30
50-99 ..... Each 1.08 100-Up ..... Each .91

Type 1749. Miniature Black Plug. 1/2" centers. Overall 1 7/32"×27/32"×1/2".
920-1859. 1-24 ..... Each 1.01 25-49 ..... Each .81
50-99 ..... Each .68 100-Up ..... Each .58

Test Clips, Terminal Boards and Staking Kit



GENERAL-PURPOSE TEST CLIPS

3-SIDED MESH-TEETH CLIPS

(A) §Cadmium-plated steel; *solid copper; †with insulation-piercing needle. #Wt. per 100 pieces. Dim: A, see listing.

Stock No.	Mfr's. Type	Amps	Size A	#Wt. Lbs.	EACH 1-99	EACH 100-499	EACH 500-Up
860-0036	§25	40	3"	6	.41	.32	.24
860-0044	§27	20	2 7/16"	3¼	.27	.22	.16
860-0046	*27C	40	2 7/16"	3½	.46	.37	.27
860-0097	§48B	10	2"	2	.22	.18	.15
860-0099	*48C	20	2"	2¼	.32	.24	.19
860-0105	*†50C	20	2¼"	2½	.76	.47	.42
860-0107	*51C	20	2¼"	2½	.55	.34	.30

"PEE-WEE" TEST CLIPS

(B) Mesh-teeth type for general purpose use. Type 45C, solid copper. Type 45, cadmium-plated steel. Dim: A, see listing.

Stock No.	Mfr's. Type	Amps	Size A	#Wt. Lbs.	EACH 1-99	EACH 100-499	EACH 500-Up
860-0085	45	5	1½"	1	.18	.13	.11
860-0087	45C	10	1½"	1¼	.27	.21	.16

HEAVY-DUTY SOLID COPPER CLIPS

(B) High-conductivity, solid copper clips. Handle current loads up to 200 amps. Lbs./100 pcs.: *6¾, †18, §41.

Stock No.	Mfr's. Type	Amps	Marking	Size A	EACH 1-99	EACH 100-499	EACH 500-Up
860-0038	*25C	75	unmarked	3"	.83	.66	.53
860-0025	†21C	100	plus sign	4½"	2.89	2.06	1.48
860-0026	†21C	100	unmarked	4½"	2.89	2.06	1.48
860-0009	§11C	200	unmarked	6"	5.58	3.97	2.91

LEAD-PLATED BATTERY CLIPS

(B) For moderately heavy current loads, incl. battery charging, electroplating, light welding. Lead-plated steel for protection and long life. Wt./100 pcs.: *6¼, †15.

Stock No.	Mfr's. Type	Amps	Marking	Size A	EACH 1-99	EACH 100-499	EACH 500-Up
860-0032	*24A	25	plus sign	2 7/8"	.71	.51	.37
860-0034	*24A	25	unmarked	2 7/8"	.71	.51	.37
860-0021	†21A	50	plus sign	4"	1.30	.93	.64
860-0023	†21A	50	unmarked	4"	1.30	.93	.64

INSULATED ALLIGATOR CLIPS

(C) §Cadmium-plated steel; *solid copper. Insulated with vinyl to protect against shocks & shorts. Wt./100 pcs., 1¾ lbs.

Stock No.	Mfr's. Type	Amps	Marking	Size	EACH 1-99	EACH 100-499	EACH 500-Up
860-0139	§63	5	Red insul.	2⅛"	.38	.30	.26
860-0137	§63	5	Blk. insul.	2⅛"	.38	.30	.26
860-0143	*63C	10	Red insul.	2⅛"	.45	.34	.27
860-0141	*63C	10	Blk. insul.	2⅛"	.45	.34	.27

70 SERIES ALLIGATOR CLIPS

(D) No. 70, cadmium-plated steel, solder connection; No. 70S, cadmium-plated steel, screw connections. No. 70CS, solid copper, screw connection. 1 lb. per 100.

Stock No.	Mfr's. Type	Amps	Barrel Color	Size	EACH 1-99	EACH 100-499	EACH 500-Up
860R0150	70	5	.....	1 11/16"	.15	.11	.09
860-0154	70S	5	.....	1 11/16"	.18	.14	.12
860-0152	70CS	10	.....	1 11/16"	.24	.18	.15

INSULATED-BARREL ALLIGATOR CLIPS

(E) Made of cadmium-plated steel, except Types 60CHS are solid copper. Jaws open 5/16". 1½ lbs. per 100 pcs.

Stock No.	Mfr's. Type	Amps	Barrel Color	Size	EACH 1-99	EACH 100-499	EACH 500-Up
868R0123	743	....	Red	2 7/16"	.22	.16	.13
868R0121	743	....	Black	2 7/16"	.22	.16	.13
860R0117	60CHS	....	Red	2 1/32"	.36	.28	.22
860R0115	60CHS	....	Black	2 1/32"	.36	.28	.22

"MICRO-GATOR" CLIPS

(F) Similar to "Mini-gators" but with tiny tip for clipping to small terminals, and as heat sink. §Cadmium-plated steel; *copper.

Stock No.	Mfr's. Type	Amps	Barrel Color	Size	EACH 1-99	EACH 100-499	EACH 500-Up
860R0062	§34	....	.....	1 3/32"	.12	.10	.08
860R0064	*34C	....	.....	1 3/32"	.15	.12	.11

MINIATURE CLIPS

(G) Ideal for testing all types of minature and subminiature equipment. 3/16" jaw opening. 1 1/64" O.D. tip when used with insulator. Type 748, cadmium-plated steel; Type 748C, solid copper, for #20 or smaller wire, Shpg. wt., ¼ lb. per 100.

Stock No.	Mfr's. Type	Amps	Size	EACH 1-99	EACH 100-499	EACH 500-Up
868R0052	748	5	1 3/32"	.12	.10	.08
868R0054	748C	10	1 3/32"	.16	.13	.10

ALLIGATOR CLIPS

(H) Steel, except 741C, solid copper. *Insulation-piercing needle. Fit banana plugs. Jaws open 9/16". 2" long. 60PR2 has barrel crimped for friction fit on std. phone tip, banana plug, test prod tip. 1 lb. per 100.

Stock No.	Mfr's. Type	Description	EACH 1-99	EACH 100-499	EACH 500-Up
868R0113	740	Solder	.15	.11	.10
868R0129	741	Screw	.17	.12	.11
868R0119	741C	Screw	.27	.21	.17
860-0126	*60NS	Screw	.50	.31	.28
860-0127	60PR2	Crimp	.24	.18	.15

STANDARD, MINIATURE & ULTRAMINIATURE TEST CLIPS

Nickel-plated brass and steel. **Type 2-0:** for panels ¼" thk., 8-32 mtg. stud; **Type 2-4:** as above; has insulated washers. **Type 2-20:** for up to ¼" panels, has 6-32 stud. **Type 2-24:** as 2-20; has insulated washers. **Type 2-41:** single clip for 3/16×⅛" panel. **Type 2-42:** double clip for ¼×⅛" panel. **2-41, 2-42** have ⅜" 2-56 mtg. stud.

Stock No.	Mfr's Type	Fig.	Total Lgth.	EACH 1-24	EACH 25-Up
STANDARD					
801-0001	2-0	N	1.56"	.75	.50
801-0004	2-4	M	1.56"	1.13	.75
MINIATURE					
801-0020	2-20	L	1.13"	.75	.50
801-0024	2-24	P	1.50"	1.13	.75
ULTRAMINIATURE					
801-0042	2-42	R	.79"	.83	.55
801-0041	2-41	S	.79"	.75	.50

CROCODILE CLIPS

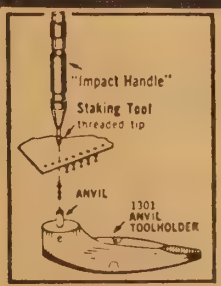
(J) Cadmium-plated steel, except Type 85C is solid copper. Wt. 1½ lbs. per 100.

Stock No.	Mfr's. Type	Description	EACH 1-99	EACH 100-499	EACH 500-Up
860R0167	85	2⅛" Screw Conn.	.20	.16	.14
860-0169	85C	2⅛" Screw Conn.	.34	.26	.22

SLIP-ON INSULATORS FOR CLIPS

(K) Tough, flexible vinyl insulators for above clips. Offer high dielectric strength; resistant to oils and grease. Cover entire clip except for end of nose. Av. wt. 1 oz.

Stock No.	Mfr's Type	Color	With Series	EACH 1-99	EACH 100-499	EACH 500-Up
860-0015	13	Red	11	2.00	1.48	1.19
860-0013	13	Black	11	2.00	1.48	1.19
860-0030	23	Red	21	.79	.71	.53
860-0028	23	Black	21	.79	.71	.53
860-0042	26	Red	24, 25	.55	.45	.38
860-0040	26	Black	24, 25	.55	.45	.38
860-0050	29	Red	27	.30	.23	.18
860-0048	29	Black	27	.30	.23	.18
868R0058	750	Red	30, 743	.06	.05	.04
868R0056	750	Black	30, 743	.06	.05	.04
860-0070	36	Red	34	.06	.05	.04
860-0068	36	Black	34	.06	.05	.04
860-0095	47	Red	45	.12	.10	.09
860-0093	47	Black	45	.12	.10	.09
860-0103	49	Red	48, 50	.21	.16	.13
860-0101	49	Black	48, 50	.21	.16	.13
868R0135	749	Red	60, 70, 748, 740	.11	.08	.07
868R0133	749	Black	60, 70, 748, 740	.11	.08	.07
860-0160	72	Red	70	.08	.06	.05
860-0158	72	Black	70	.08	.06	.05
860R0177	87	Red	85	.11	.08	.07
860R0175	87	Black	85	.11	.08	.07



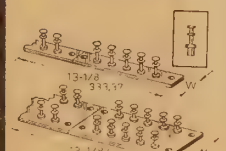
"IMPACT" STAKING KIT

Assemble Terminal Boards, Printed Circuits

Model 1707. Produces light or heavy blow. Uniform striking action. Automatic one-hand operation. Stakes all diameters to 3/32" maximum. Kit includes: anvil holder; impact handle; plus eleven interchangeable tools. With instructions. Wt. 1 lb.

839-3433. 1-4 ..... **Ea. 26.66**
5-Up ..... **Ea. 24.25**

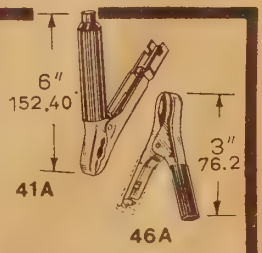
SCORED TURRET TERMINAL BOARDS



Brass terms. ½ hard; hot dip solder finish. 5 sections, ea. 2⅝" long, with .120" dia. mtg. holes. PBE=paper base electrical board, for temp. up to 250°F. GEE=G-10 Glass Epoxy boards for 300°F max. 3/32" thick with double row of terms. (50 total) on ⅜" ctr. except Type 15031, with single row of 25 term. 3 oz. *Spacing between rows.

Stock No.	Mfr's Type	Width In.	Width MM.	* In.	* MM.	Material	EACH 1-9	EACH 10-19	EACH 20-Up
839-3450	15031	½	127	....	....	PBE	2.38	1.55	1.36
839-3455	15036	1½	38	1 3/16	80	PBE	5.75	3.11	2.93
839-3468	15236	1½	38	1 3/16	80	GEE	8.00	6.40	3.98
839-3452	15033	2	51	1½	38	PBE	5.88	3.26	3.11
839-3465	15233	2	51	1½	38	GEE	9.23	7.38	4.94

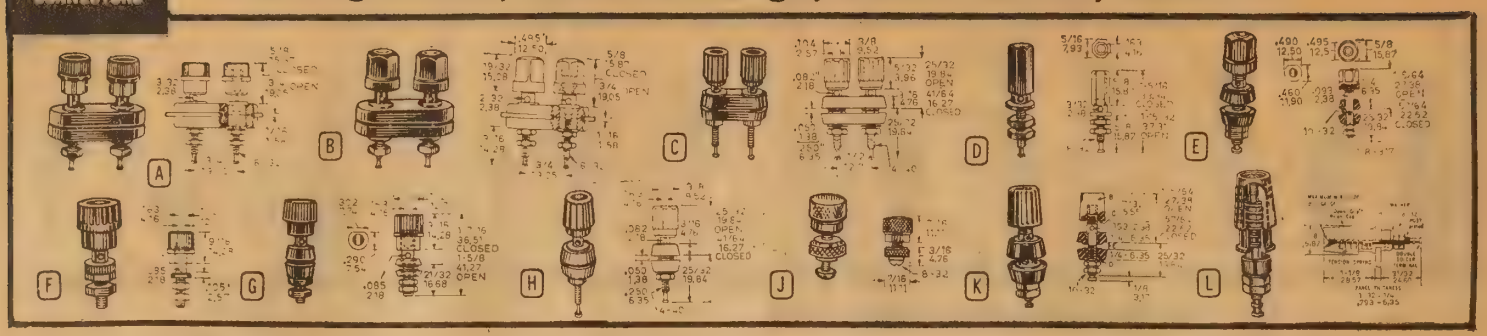
"PIGMY HIPPO" & "HIPPO" CLIPS



Strong full-channel-constructed plier clips with two vinyl insulating sleeves. Full-size handles. **Type 41A** std. "Hippos": 6" long, 1 9/16" jaw opening. **Type 46A** "Pigmy-Hippos": 3" long, 1⅛" jaw opening. Wt. per 100, *41 lbs; †5¾ lbs.

Stock No.	Mfr's Type	Amps	Sleeve Color	Marking	EACH 1-99	EACH 100-499	EACH 500-Up
860-0077	41A*	100	Black	sign	1.77	1.20	1.05
860-0079	41A*	100	Red	sign	1.77	1.20	1.05
860R0089	46A†	50	Black	None	.44	.35	.28
860R0091	46A†	50	Red	None	.44	.35	.28

Binding Posts, Banana Plugs, Patch Cords, Holders



DUAL BINDING POSTS Types 224 and 269: Standard dual insulated binding posts, brass nickel plated, mounts in 2½" holes ¾" centers, panels up to ¼" thick, includes all mounting hardware. **Type 3016:** Miniature dual insulated binding posts, brass gold plated, mounts in 2¼" holes ½" centers, includes all mounting hardware.

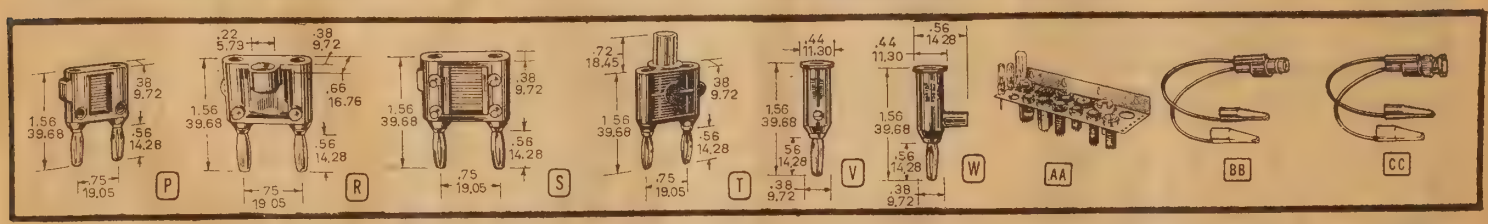
SINGLE BINDING POSTS Type 208: Standard 5 way all metal binding post, brass nickel plated, mounts in #6 clearance hole, includes all mounting hardware. **Type 257:** Standard 5 way insulated Hex Head Binding Post, brass gold plated, mounts in ½" round or D hole, includes all mounting hardware. **Type 260:** Standard 5 way insulated binding post, brass nickel plated, mounts in 5/16" round or D hole, includes all mounting hardware. **Type 3015:** Miniature 5 way insulated binding post, brass gold plated, mounts in ¼" round or D hole, includes all mounting hardware. **Type 110:** All metal binding post, brass nickel plated, mounts in #6 clearance hole, includes all mounting hardware. **Type 459:** Standard 5 way all insulated fluted head binding post, brass gold plated, mounts in ½" round or D hole, includes all mounting hardware. *Rated at 15 Amps AC for 10° Temp. rise, continuous duty. †Rated at 15 Amps AC for 10° Temp. rise continuous duty, 2 KV Volts 60 cycle AC continuous working voltage. Accepts standard banana plugs, .080 phone tips, wire, alligator clips and spade lug. ††Rated at 5 Amps AC for 10° Temp rise continuous duty, 2 KV 60 cycle AC continuous working voltage. Accepts miniature banana plugs, .080 phone tips, wire, alligator clips and spade lug.

DUAL BINDING POSTS

Stock No.	Mfr's Type	Fig.	Color	EACH 1-99	100-299	300-499	500-Up
920-0267	224BB†	A	Black/black	1.28	1.03	.86	.73
920-0325	269BB†	B	Black/black	1.69	1.40	1.10	1.00
920R0326	269RB†	B	Red/black	1.69	1.40	1.10	1.00
920-2817	3016RB††	C	Red/black	1.55	1.24	1.04	.88

SINGLE BINDING POSTS

920-0228	208†	D	Metal	.88	.70	.59	.50
920R0312	257†	E	Black	1.03	.82	.69	.62
920-9060	257†	E	Yellow	1.03	.82	.69	.62
920-9061	257†	E	Green	1.03	.82	.69	.62
920-9062	257†	E	White	1.03	.82	.69	.62
920R9063	257†	E	Red	1.03	.82	.69	.62
920-9064	257†	E	Blue	1.03	.82	.69	.62
920-0256	220†	F	Red	.46	.37	.31	.26
920-0257	220†	F	Black	.46	.37	.31	.26
920-0315	260†	G	Red	.74	.59	.50	.42
920-0316	260†	G	Black	.74	.59	.50	.42
920-2814	3015††	H	Red	.81	.65	.54	.46
920-2815	3015††	H	Black	.81	.65	.54	.46
920-0110	110*	J	Metal	.47	.38	.32	.27
920-0563	459†	K	Red	1.03	.82	.69	.62
920-0561	459†	K	Black	1.03	.82	.69	.62
721R0031	AL2000B	L	Black	1.20	.96	.80	.69
721R0032	AL2000R	L	Red	1.20	.96	.80	.69

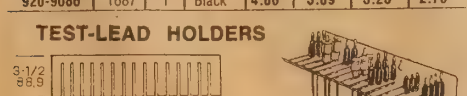


DUAL BANANA PLUG ADAPTERS

Type 1677: Standard dual banana plugs on ¾" centers. Set screws secure component leads to conductors. **Type 1675:** Standard dual banana plugs on ¾" centers. Set screws to secure leads to conductor. **Type 1676:** Standard dual banana plugs on ¾" centers. Turret terminals for solder connection of component leads. **Type 1696:** Standard dual banana plugs on ¾" centers. Isolation type for pad and network solder connection. **Type 1686:** Standard dual banana plugs on ¾" centers to BNC male. **Type 1687:** Standard dual banana plugs on ¾" centers to BNC male. *Rated at 15 Amps AC for 10° Temp. rise continuous duty, 5 KV 60 cycle continuous working voltage.

Stock No.	Mfr's Type	Fig.	Color	EACH 1-9	10-24	25-49	50-Up
920-9066	1677	P	Black	1.49	1.19	.99	.83
920-9067	1677	P	Red	1.49	1.19	.99	.83
920-9070	1675*	R	Black	1.49	1.19	.99	.83
920-9071	1675*	R	Red	1.49	1.19	.99	.83
920-9078	1676	R	Black	1.62	1.30	1.08	.91
920-9080	1696	S	Red	4.39	3.51	2.93	2.49
920-9085	1686	T	Black	3.51	2.81	2.34	1.99
920-9086	1687	T	Black	4.86	3.89	3.25	2.76

TEST-LEAD HOLDERS



Slotted holder of cold-rolled steel baked enamel finish. 3½ · 11". Shpg. wt 14 oz.

Stock No.	Mfr's Type	Cable Dia. (In.)	Color	EACH 1-9	10-24	25-49	50-Up
885R0382	1508	.210	Org.	7.23	5.78	4.42	3.84
885R0631	2708	.450	Blue	7.23	5.78	4.42	3.84

SINGLE BANANA PLUGS

Type 1325: Solderless, stack-up type with internal set screw. Heavy-duty, positive connection. One-piece nickel-plated beryllium copper spring for use with standard 0.166"/diameter banana jack. Rated 15 amps, continuous. 5000 WVDC. 2 oz. **Type 1825:** Safety-type solderless banana plug. Collar eliminates shock hazard. Internal set screw. Nickel-plated beryllium copper spring. .166" diameter jack plug.

Stock No.	Mfr's Type	Fig.	Color	EACH 1-9	10-24	25-49	50-Up
885-0301	1325	V	Black	1.13	.90	.69	.60
885-0302	1325	V	Red	1.13	.90	.69	.60
885-0304	1325	V	Yel.	1.13	.90	.69	.60
885-0305	1325	V	Grn.	1.13	.90	.69	.60
885-0460	1825	W	Black	1.12	.90	.58	.55
885-0462	1825	W	Red	1.12	.90	.58	.55
885-0464	1825	W	Yel.	1.12	.90	.58	.55
885-0465	1825	W	Grn.	1.12	.90	.58	.55
885-0469	1825	W	White	1.12	.90	.58	.55

AA SOCKET-ADAPTER & TOOL HOLDER

Holds seven 7/8" and six 1 9/32" socket adapters plus 12 service tools. Steel with anti-rust baked green enamel finish. 3½ x 11". 14 oz.

885-0660. Type 2898. 1-4 ... Each 7.23 5-Up ..... Each 5.78

BB BNC PLUG TO TEST CLIPS

Type 2886. Molded "breakout" converts coaxial cable to test cable. Thermoplastic insulation molded to connector and wire. Two cadmium-plated steel minigator clips with black and red vinyl insulators. #20 wire 7" long, with polyvinyl insulation. 500 V peak. 2 oz.

885-0654. 1-9 ..... Each 8.90 10-24 ..... Each 6.76
25-49 ..... Each 4.93 50-Up ..... Each 4.50

CC BNC RECEPTACLE TO TEST CLIPS

Type 2631. BNC receptacle UG1094/U with thermoplastic molded insulation. Two cadmium-plated steel minigator clips with black and red insulators. #20 wire. 500 V peak voltage. Wt. 3 oz.

885-0625. 1-9 ..... Each 7.03 10-24 ..... Each 5.62
25-49 ..... Each 4.10 50-Up ..... Each 3.74



STACKING PATCH CORDS

Type 1510: In-line and cross patch stacking banana plug cords. Standard Ber. copper nickel plated banana plugs each end, #18 AWG 10 KV PVC wire. **Type 1595:** In-line and cross patch stacking .080 phone tip cords. Brass nickel plated tip plugs each end, 18 AWG 10 KV PVC wire—operating temp 0°C to 105°C. Rated at 5 Amps continuous, 10 Amps intermittent 5,000 WVDC.

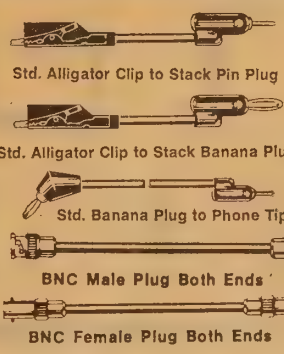
Stock No.	Mfr's Type	Fig.	Color	Lgth In.	EACH 1-9	10-24	25-49	50-Up
920-9040	1510-8	X	Blk.	8	1.90	1.52	1.27	1.01
920-9041	1510-8	X	Red	8	1.90	1.52	1.27	1.01
920-9042	1510-12	X	Blk.	12	1.90	1.52	1.27	1.01
920-9043	1510-12	X	Red	12	1.90	1.52	1.27	1.01
920-9044	1510-24	X	Blk.	24	2.03	1.62	1.35	1.08
920-9045	1510-24	X	Red	24	2.03	1.62	1.35	1.08
920-9046	1510-36	X	Blk.	36	2.15	1.72	1.44	1.14
920-9047	1510-36	X	Red	36	2.15	1.72	1.44	1.14
920-9050	1595-8	Y	Blk.	8	1.96	1.45	1.30	1.07
920-9053	1595-12	Y	Red	12	1.96	1.45	1.30	1.07
920-9056	1595-36	Y	Blk.	36	2.15	1.72	1.44	1.15
920-9057	1595-36	Y	Red	36	2.15	1.72	1.44	1.15

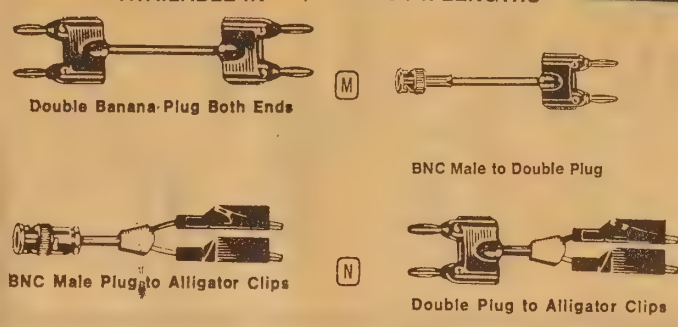
For Fast, Dependable Service, Call Your Nearest Allied Electronics Facility

Jumpers, Patch Cords, Test Leads, Prods

AVAILABLE IN 1, 3 AND 5-FT. LENGTHS







UNSHIELDED JUMPERS

Big selection of unshielded jumper cords with a variety of clip and plug styles. All leads are #18 AWG 20,000-volt insulated wire. Cadmium-plated steel clips; nickel-plated brass tips; vinyl plastic boots. Have No. 20, 5000-volt insulation. Handles: *Molded phenolic plastic, †Molded butyrate. Wt. 5 oz.

Stock No.	Mfr's Type	Lgth. Ft.	Color	Fig.	EACH 1-9	10-24	25-99	100-Up
920-1683	1596-12-102	1	Red	A	.95	.76	.63	.53
920-1684	1596-12-103	1	Black	A	.95	.76	.63	.53
920-1685	1596-36-102	3	Red	A	1.22	.97	.81	.68
920-1686	1596-36-103	3	Black	A	1.22	.97	.81	.68
920-1687	1596-60-102	5	Red	A	1.49	1.19	.99	.83
920-1690	1596-60-103	5	Black	A	1.49	1.19	.99	.83
920-1688	1597-12-102	1	Red	B	.95	.76	.63	.53
920-1689	1597-12-103	1	Black	B	.95	.76	.63	.53
920-1691	1597-36-102	3	Red	B	1.22	.97	.81	.68
920-1692	1597-36-103	3	Black	B	1.22	.97	.81	.68
920-1693	1597-60-102	5	Red	B	1.49	1.19	.99	.83

Stock No.	Mfr's Type	Lgth. Ft.	Color	Fig.	EACH 1-9	10-24	25-99	100-Up
920-1694	1597-60-103	5	Black	B	1.49	1.19	.99	.83
920-1950	1860-12-102†	1	Red	C	1.28	.95	.85	.73
920-1951	1860-12-103†	1	Black	C	1.28	.95	.85	.73
920-1953	1860-36-102†	3	Red	C	1.55	1.15	.93	.88
920-1954	1860-36-103†	3	Black	C	1.55	1.15	.93	.88
920-1960	1865-36-102	3	Red	D	1.62	1.30	1.08	.91
920-1966	1866-36-102*	3	Red	E	1.62	1.30	1.08	.91
920-1967	1866-36-103*	3	Black	E	1.62	1.30	1.08	.91
920-1968	1866-60-102*	5	Red	E	1.89	1.51	1.26	1.06
920-1969	1866-60-103*	5	Black	E	1.89	1.51	1.26	1.06
920-1970	1336-36-103	3	Black	F	1.78	1.42	1.19	1.01

COAXIAL CABLE SHIELDED STANDARD PATCH CORDS

Seven styles of shielded standard patch cords. All leads use RG-58C/U coaxial cable except †low-capacity cable; ‡twisted pair. Cadmium-plated clips. Handles: *Molded Butyrate. Wt. 5 oz.

920-1650	1589-12	1	Black	G	7.22	5.78	4.82	4.13
920-1652	1589-36	3	Black	G	7.49	5.99	5.00	4.28
920-1654	1589-60	5	Black	G	7.76	6.21	5.18	4.44
920-1672	1869-36	3	Black	H	8.51	6.80	5.67	4.86
920-1674	1869-60	5	Black	H	9.59	7.68	6.40	5.37
920-1610	1580-12*	1	Black	J	5.87	4.70	3.92	3.36
920-1613	1580-36*	3	Black	J	6.14	4.91	4.10	3.51
920-1615	1580-60*	5	Black	J	6.41	5.13	4.28	3.66
920-1586	1791-12*	1	Black	K	7.22	5.78	4.82	4.13

920-1588	1791-36*	3	Black	K	7.49	5.99	5.00	4.28
920-1590	1791-60†*	5	Black	K	7.76	6.21	5.18	4.44
920-1987	1584-36†*	3	Black	M	8.51	6.80	5.67	4.86
920-1988	1584-60†*	5	Black	M	8.78	7.02	5.85	5.01
920-1564	1531-36‡*	3	Gray	N	7.49	5.99	5.00	4.28
920-1568	1531-60*	5	Gray	N	7.76	6.21	5.18	4.44
.....	.....	..	.....	..	....	....	....	....

TEST LEADS AND TEST PRODS

50" LONG (UNLESS OTHERWISE STATED)



TEST LEADS AND PRODS

No. 20 rubber-covered wire 50" long (unless otherwise stated); 5000 V test. Handles and plugs are molded butyrate per **MIL-L-P349A,** Type 3, Class MS; fiber per **MIL-F-1148A,** Grade CH; molded thermosetting plastic per **MIL-P-14CFG.**

SOLDERLESS TIP TEST LEADS

Prods are 4" long with 3/8" O.D. Have molded butyrate handle and nickel-plated brass tip. **Per Pair.**

Stock No.	Mfr's Type	Meter End	Per Pair 1-11	12-Up
920-0600	600	phone tips	3.35	2.26
920-0602	602	alligator clips	2.63	2.11

ALLIGATOR CLIP TEST LEADS

Cadmium-plated steel clips. *Have vinyl plastic boots. Type 717 has midget clips. **Per Pair.**

Stock No.	Mfr's Type	Length Inches	Per Pair 1-11	12-Up
920-0605	605	24	1.49	1.19
920-0657	657*	24	1.68	1.35
920-0717	717*	18	1.55	1.24

TEST LEAD KITS

4" handles have banana plugs at one end. Type 610 has solderless phone tip; 611 has needle tip. With 2 phone tips, 2 alligator clips, 2 spade lugs. **Per Pair.**

Stock No.	Mfr's Type	Per Pair 1-11	12-Up
920-0610	610	4.05	3.24
920-0611	611	4.18	3.34

TYPE 618 RETRACTILE TEST LEADS

Solderless. 12" to 6' coil. Nickel-plated brass tips. Butyrate handle. 4000 volts. Nominal O.D. .165". **Per Pair.**
920-0618. 1-11 .. Ea. 8.90 12-Up .. Ea. 6.60

METER TEST LEADS

Solderless Prods—4". Butyrate handle, 3/8" O.D. Nickel-plated brass tip, body. Molded thermosetting plastic elbow. Banana meter tip, 4-leaved spring. **Per Pair.**

Stock No.	Mfr's Type	Meter End	Per Pair 1-11	12-Up
920-0625	625	phone tip	3.37	2.70
920-0685	685	banana tip	3.37	2.70

METER TEST LEADS WITH NEEDLE PRODS

Same as Types 625/626, but with nickel-plated steel needle prods. **Per Pair.**

Stock No.	Mfr's Type	Meter End	Per Pair 1-11	12-Up
920-0686	686	banana tip	3.51	2.80

ALLIGATOR CLIP TEST LEADS

Cadmium-plated steel alligator clips have molded butyrate handles. Molded thermosetting plastic elbows* and meter plugs. **Prices are Per Pair.**

Stock No.	Mfr's Type	Meter End	Per Pair 1-11	12-Up
920-0628	628*	tip plugs	2.90	2.32
920-0647	647*	banana plugs	3.10	2.49
920-0649	649	spade lugs	2.09	1.57

CROCODILE CLIP TEST LEADS WITH BOOTS

Clips are cadmium-plated steel. Thermosetting elbows. Vinyl boots. **Per Pair.**

Stock No.	Mfr's Type	Meter End	Per Pair 1-11	12-Up
920-0648	648	banana plugs	3.44	2.75
920-0675	675	tip plugs	3.23	2.59

TYPE 302 SOLDERLESS PROD

Threaded, 4" plastic handle, 3/8" dia. Nickel-plated phone tip. 6 oz.
920-0402. Red. **920-0403.** Black.
1-24 ..... Each .41 25-49 ..... Each .36
50-99 ..... Each .30 100-Up ..... Each .25

TYPE 323 SOLDERLESS PROD

Bone fiber handle, nickel-plated brass tip. .245 I.D., 5 7/32" long. 8 oz.
920-0427. Red. **920-0428.** Black.
1-24 ..... Each .53 25-49 ..... Each .42
50-99 ..... Each .35 100-Up ..... Each .30

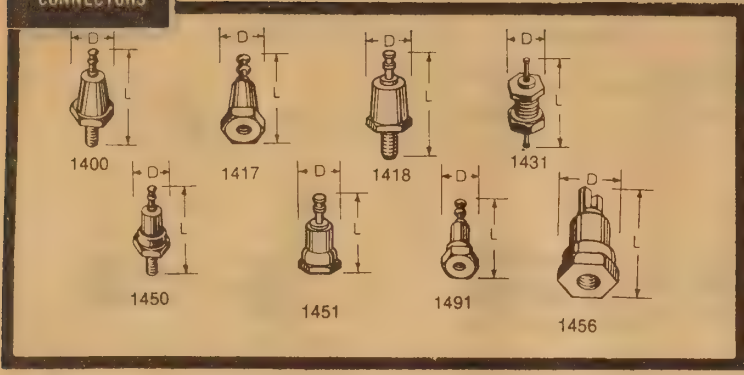
TYPE 317 PHONO NEEDLE PROD

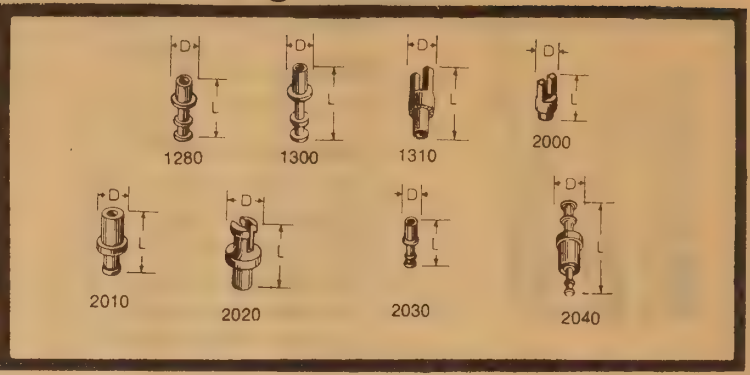
Replaceable Steel Needle. Brass/nickel body. Handle 4 13/16" long. 4 oz.
920-0420. Red. **920-0421.** Black.
1-24 ..... Each .49 25-49 ..... Each .39
50-99 ..... Each .32 100-Up ..... Each .28

TYPE 319 HEAVY-DUTY PROD

Threaded. Brass nickel-plated tip. Plastic handle, 5 9/16" long. 8 oz.
920-0424. Red. **920-0423.** Black.
1-24 ..... Each .41 25-49 ..... Each .36
50-99 ..... Each .30 100-Up ..... Each .25

Terminals and Audio Connecting Cables





INSULATED TERMINALS

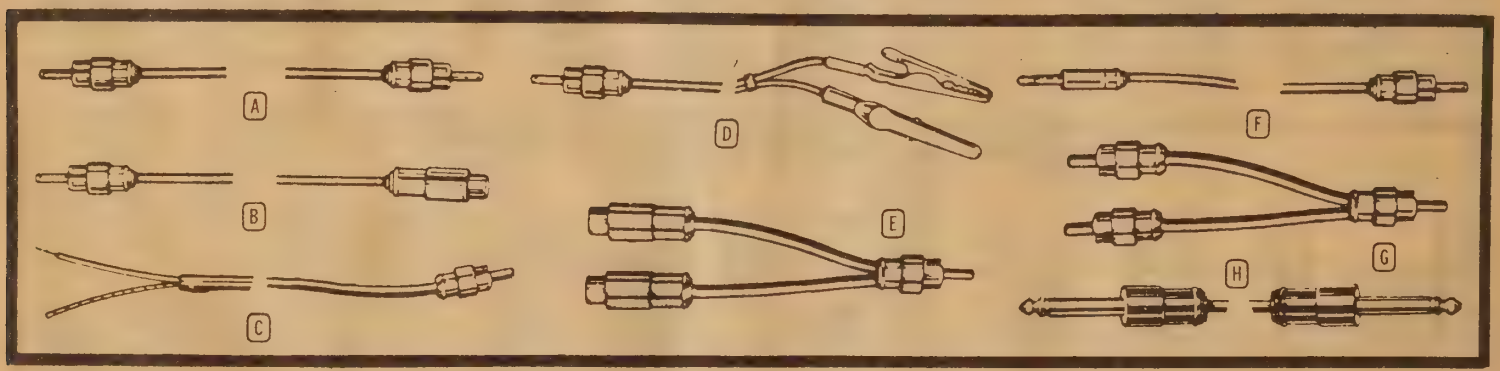
Stand-off types, except 1431 (feed-thru). Turret, bifurcated terminals. Base connections are stud, female, swage. Breakdown voltages: 1500-10,000V AC. Brass, with .000015" gold plate over .0003" silver plate. Cadmium-plated brass bases. Brass per QQ-B-626, composition 22, ½ hard. Insulation: Phenolic (MIL-P-14020 CL 2); Alkyd (MIL-M-14E Ty, Mag); Teflon (AMS-3651B). Shpg. wt. per pkg. of 25, 2 oz.

Stock No.	Mfr's Type	Thread Size	Shank Dia. Inches	Insulation	PER PKG. OF 25		
					1-10	11-19	20-Up
971-0403	1400B	6-32	.250	Phenolic	15.62	10.20	9.00
971-0409	1417	6-32	....	Alkyd	11.87	7.75	6.97
971-0410	1418B	6-32	.250	Alkyd	13.75	8.97	8.07
971-0420	1431	10-32	....	Teflon	14.53	13.00	11.75
971-0425	1450B	6-32	.250	Teflon	14.53	8.55	7.72
971-0426	1450H	4-40	.375	Teflon	14.37	8.55	7.72
971-0427	1451	6-32	....	Teflon	13.75	8.97	8.07
971-0429	1456	6-32	....	Teflon	10.41	10.20	9.20
971-0446	1491A	2-56	....	Teflon	11.25	8.75	8.00

STANDARD TERMINALS

Include hollow lug, bifurcated, turret and feed-through types. Terminals per QQ-B-626, composition 22, ½ hard. Silver-plated per QQ-S-365 Type III. Tarnish-resistant coatings of dichromate, water-dip lacquer, waxes. Packed in vapor-resistant cellothene plastic. Shpg. wt. per pkg. of 100, 2 oz.

Stock No.	Mfr's Type	Shank		PER PKG. OF 100		
		Dia. Inches	Length Inches	1-9	10-49	50-Up
971-0316	1280B	.091	.105	5.50	4.02	3.57
971-0317	1280C	.091	.135	5.50	4.02	3.57
971-0338	1300D	.114	.165	8.00	6.60	5.90
971-0356	1310B	.114	.105	7.50	6.70	6.00
971-0358	1310D	.114	.165	7.50	6.70	6.00
971-0488	2000B	.063	.084	5.75	4.25	3.75
971-0489	2000C	.063	.115	5.75	4.25	3.75
971-0491	2010B	.063	.084	4.25	3.14	2.77
971-0492	2010C	.063	.115	4.25	3.14	2.77
971-0494	2020B	.063	.084	7.25	5.36	4.72
971-0496	2030B	.062	.084	4.25	3.14	2.77
971-0499	2040D	.126	.165	12.75	12.21	10.75



FINE QUALITY AUDIO CONNECTING CABLES

Wide assortment of audio connectors for virtually every application in industrial, commercial or stereo use. Made of high-strength, lightweight plastic for long-life, noise-free operation. †Stripped, tinned, ready for soldering—need not remove insulation. Av. shpg. wt. 8 oz.

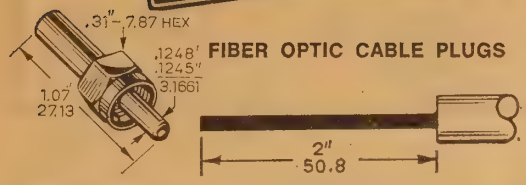
Stock No.	Manufacturer's Equivalent Types	Description	Fig.	Lgth. Ft.	EACH			
					1-11	12-49	50-499	500-Up
910-9000	42-2365	Phono Pin Plugs	A	1½	1.49	1.27	1.11	.99
910-9001	42-2366	Phono Pin Plugs	A	3	1.59	1.35	1.19	1.06
910-9002	42-2367	Phono Pin Plugs	A	6	1.89	1.60	1.41	1.26
910-9005	42-2368	Phono Pin Plugs	A	12	2.59	2.20	1.94	1.73
910-9006	42-2361	Phono Pin/Plug Jack	B	3	1.99	1.69	1.49	1.33
910-9007	42-2362	Phono Pin/Plug Jack	B	6	1.99	1.69	1.49	1.33
910-9010	42-2363	Phono Pin/Plug Jack	B	12	2.69	2.28	2.01	1.80
910-9012	42-2370	Phono Pin Plug/Tinned†	C	3	1.39	1.18	1.04	.93
910-9013	42-2371	Phono Pin Plug/Tinned†	C	6	1.59	1.35	1.19	1.06
910-9014	42-2372	Phono Pin Plug/Tinned†	C	12	1.89	1.60	1.41	1.26
910-9024	42-2421	Mini Phono Plug/Alligator Clips	D	10	1.99	1.69	1.49	1.33
910-9037	42-2444	Mini Plug to Phono Pin	E	6	1.69	1.43	1.26	1.13
910-9040	42-2436	Adapter (Pin Plug/Jacks)	F	4"	2.59	2.20	1.94	1.73
910-9041	42-2438	Adapter (Pin Plugs)	G	4"	1.99	1.69	1.49	1.33
910-9033	42-2381	Phono Plugs	H	6	2.89	2.45	2.16	1.93

For Fast, Dependable Service, Call Your Nearest Allied Electronics Facility

NEW! Fiber Optic Connectors, Jacks & Accessories

FIBER OPTIC CONNECTORS

FIBER OPTIC CABLE PLUGS

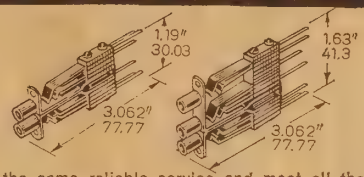


Precision plugs for accurate, repeatable alignment. All metal for superior RFI shielding and stability in adverse environments. Subminiature size, with ¼"-36 UNS mating threads (SMA size). Epoxy is used to hold the cable center conductor in place, and the important mating interface is then polished using tool **909-2011** (shown at right). Stainless steel probes provide corrosion resistant surface after termination. Front body: stainless steel per QQ-S-764, passivated per MIL-F-14702. Rear: brass. QQ-B-626, Astroplate.

Stock No.	Mfr's Type	Multi-Fiber Optical Cable	Cable Data: Bundle Dia.	Cable Data: Outer Jacket	EACH 1-9	EACH 10-Up
713-9925	905-119-5004	Corning 5013	.091"	.139"	19.07	13.44
713-9930	905-119-5005	Corning 5015	.045"	.075"	13.54	9.54
713-9935	905-119-5006	Corning 5010, Galileo 2000-212T & 2000-212P	.045"	.092"	14.65	10.32
713-9940	905-119-5007	Galileo 3000-7T, -7P	.013"	.056"	14.14	9.96

BANTAM JACKS

- **Small Size**
- **Need Little Space**



Compact jacks provide the same reliable service and meet all the requirements of regular-size telephone jacks. Meet all electrical, mechanical and environmental military specifications for long-frame telephone jacks. Available in two- and three-conductor types with solder or wire-wrapped terminals. Rear mounting. Steel frame; cadmium plated with chromate conversion. Brass bushing, silver soldered to frame. Western Electric #1 gold alloy crossbar contacts, welded to nickel silver springs. Phenolic spacers.

SOLDER TAILS

Stock No.	Mfr's Type	Description	Max. Stack Ht., In. (mm)	EACH 1-9	EACH 10-Up
719-0105	PJ-818	2-cond. w/normal	.406 (10.31)	1.85	1.11
719-0125	PJ-824	3-cond. w/normal & w/1 form B contact	.671 (17.04)	2.95	1.77
719-0145	PJ-838	3-cond. w/no normals	.531 (13.49)	1.65	.99
719-0155	PJ-839	3-cond. w/normals	.531 (13.49)	2.15	1.29
719-0115	PJ-821	Side frame for shielding	1.531 (38.89)	8.70	5.22
719-0135	PJ-831	Center frame	1.531 (38.89)	7.10	4.26
719-0165	PJ-889	Back-to-Back	1.062 (26.97)	6.00	3.60

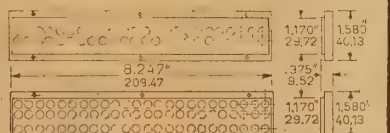
WIRE WRAP

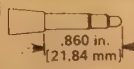
Stock No.	Mfr's Type	Description	Max. Stack Ht., In. (mm)	EACH 1-9	EACH 10-Up
719-0110	PJ-818W	2-cond. closed-circuit	.437 (11.10)	1.95	1.17
719-0130	PJ-824W	3-cond. closed circuit	.750 (19.05)	3.05	1.83
719-0150	PJ-838W	3-cond. open circuit	.562 (14.27)	1.75	1.05
719-0160	PJ-839W	3-cond. closed circuit	.578 14.68)	2.25	1.35
719-0120	PJ-821W	2+1	1.625 (41.27)	9.85	5.91
719-0140	PJ-831W	2+1	1.625 (41.27)	7.35	4.41
719-0170	PJ-889W	Back-to-Back	1.187 (30.15)	6.10	3.66

BANTAM PANEL INSERTS

Type PJ-771. Holds 24 2+1 jacks, in pairs on .312" (7.92mm) centers with .370" (9.40mm) between pairs. Black plastic.
719-0095. 1-4 Ea. 11.50 5-9 Ea. 7.48
10-24 ....Ea. 6.90 **25-Up**....Ea. 6.33

Type PJ-776. Holds 24 PJ-889 or PJ-889W back-to-back Bantam jacks. Jacks are in pairs on .312" (7.92mm) centers; .370" (9.40mm) between pairs. Black plastic.
719-0100. 1-4 Ea. 7.50 5-9 Ea. 4.88
10-24....Ea. 4.50 **25-Up**....Ea. 4.13





DUMMY PLUG

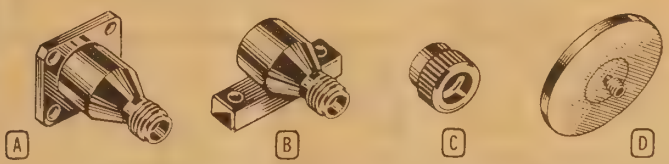
Type PJ-748. Solid plastic, for use with Bantam 3-cond. jack. Actuates circuit contacts, but does not carry a signal.
719-0090. 1-4 .....Each .70 5-9 .....Each .46
10-24 .....Each .42 **25-Up** .....Each .39



CIRCUIT GUARD PLUGS

Solid plastic. Snap-fit into Bantam jacks, but do not actuate circuit. Used to identify and block entry. Single-circuit.
719-0175. Type PJ-925R. Red. **719-0180.** Type PJ-925W. White.
1-4 .....Each .60 **5-9** .....Each .39
10-24 .....Each .36 **25-Up** .....Each .33

FIBER OPTIC RECEPTACLES AND INSERTS



Made of brass per QQ-B-626, Astroplate. Receptacles are for TO-5 devices, mate with plugs at left. Inserts are press-fit type for use with either receptacle.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	EACH 10-Up
713-9945	905-120-5000	.....	Jack-Jack adapter	10.05	9.78
713-9900	905-117-5000	A	4-hole flange mount receptacle	12.26	8.64
713-9905	905-118-5000	B	PC board receptacle	12.76	9.00

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	EACH 25-Up
713-9910	905-5008-1	C	Insert for TO-46 device	1.60	.75
713-9915	905-5008-7	C	Blank insert	1.60	.75

(D) POLISHING TOOL FOR CABLE PLUGS

Type 909-2011. Maintains precise dimensions of cable plugs listed at left.
713-9920. .....Each 70.97

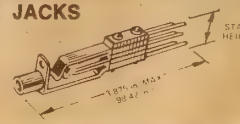
BANTAM MOLDED PATCH CORDS

Plastic jacketed, shielded cords complete with molded-on plugs. Single 3-conductor plugs are constructed with molded insulation between conductors. Cord strain relief. Stranded copper conductors. Brass conductor parts, finished to 32 microinch finish maximum. Molded nylon plug insulation. Flexible black thermoplastic plug shell. Soldered internal connections. Gray jacket.

Stock No.	Mfr's Type	Cord Length	EACH 1-4	EACH 5-9	EACH 10-24	EACH 25-Up
719-0075	PJ-712	12 inches (.305 meter)	10.25	6.66	6.15	5.64
719-0080	PJ-713	18 inches (.457 meter)	10.50	6.83	6.30	5.78
719-0085	PJ-714	24 inches (.609 meter)	10.75	6.99	6.45	5.91

SINGLE LONG FRAME JACKS

Made in accordance with MIL-J-641C specifications. Steel frame, plated to withstand 48-hr. salt spray. Western Electric #1 gold cross bar contacts. Solder or Wire Wrap terminals. **PJ-310 Plug** is equivalent of PJ-051.



Stock No.	Mfr's Type	No. of Cond.	Circuit	Stack Ht. Inch (mm)	Terminals	EACH 1-9	EACH 10-Up
719-0010	PJ-123	2	Open	.500 (12.70)	Solder	1.95	1.17
719-0015	PJ-238	3	Open	.531 (13.49)	Solder	2.35	1.41
719-0020	PJ-238W	3	Open	.531 (13.49)	Wire Wrap	2.55	1.53
719-0025	PJ-240	3		.687 (17.45)	Solder	3.90	2.34
719-0040	PJ-280	3		.687 (17.45)	Solder	4.10	2.46
719-0050	PJ-318	2	Closed	.437 (11.10)	Solder	2.35	1.41
719-0055	PJ-339	3	Closed	.531 (13.49)	Solder	2.75	1.65
719-0060	PJ-339W	3	Closed	.578 (14.68)	Wire Wrap	3.00	1.80
719-0030	PJ-246	3	Open	.531 (13.49)	Solder	2.55	1.53
719-0035	PJ-246W	3	Open	.531 (13.49)	Wire Wrap	2.55	1.53

Stock No.	Mfr's Type	Description	EACH 1-4	EACH 5-9	EACH 10-24	EACH 25-Up
719-0045	PJ-310	3-conductor Long frame plug	5.00	3.25	3.00	2.75

TWIN JACKS

- **Two Jacks With a Common Mounting Frame**

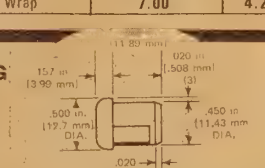


Jack sleeves on .625" centers for vertical mounting in standard jack panels. Normalling springs are strapped during manufacture. Nickel plated brass sleeves. Steel frame and hardware, cadmium-chromate plated. 3-conductor. Use with PJ-7 plug.

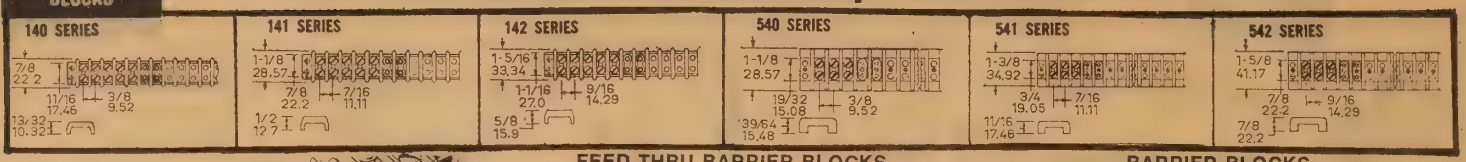
Stock No.	Mfr's Type	Dimensions, Inches X	Y	Z	Terminals	EACH 1-9	EACH 10-Up
719-0065	PJ-482	3.515	.....	.60	Solder	7.00	4.20
719-0070	PJ-482W	.....	4.031	.60	Wire Wrap	7.00	4.20

HOLE PLUG

Type PJ-29. Molded of black polyethylene plastic. Made to plug unused jack mounting holes in jack panels. Fits all standard panels.
719-0005. 1-4.....Ea. .40 **5-9** .....Ea. .26
10-24 .....Ea. .24 **25-Up** .....Ea. .22



Barrier Block and Strip Terminals



BARRIER-TYPE TERMINALS



Barriers interposed between terminal positions for more insulation. Follow edge of strips, terminate at base. Insure positive contact. Series 140, 5-40x3/16" binder head screws; 141, 6-32x1/4"; 142, 8-32x5/16".

NOTE: First number in Mfr's Type is number of terminals. Series 140. Terminal centers are 3/8". 7/8" wide x 1 3/32" high. Use with Series 1600 fanning strips. Av. shpg. wt. 14 oz.

15 AMPS, 1100/1200 VOLTS RMS*

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
750-1316	2-140	.45	.36	.32	.27
750-1365	3-140	.54	.40	.35	.31
750R1410	4-140	.58	.54	.40	.36
750-1455	5-140	.65	.63	.53	.41
750R1500	6-140	.90	.74	.60	.53
750-1545	7-140	.95	.86	.67	.59
750R1590	8-140	1.03	.97	.79	.65
750-1635	9-140	1.25	1.09	.87	.70
750R1675	10-140	1.40	1.17	.96	.82
750-1720	11-140	1.45	1.25	1.02	.87
750R1756	12-140	1.53	1.42	1.13	.94
750-1835	14-140	1.75	1.61	1.29	1.10
750-1875	15-140	1.88	1.71	1.40	1.15
750-1908	16-140	1.98	1.81	1.46	1.21
750-1976	18-140	2.30	2.03	1.63	1.39
750R2024	20-140	2.53	2.24	1.80	1.51

Series 141. Terminal centers are 7/16". Base 1 1/8" wide x 1/2" high. Use with Series 161 fanning strips. Av. shpg. wt. 14 oz.

20 AMPS, 1100/1600 VOLT RMS*

750-1319	2-141	.48	.39	.33	.29
750-1368	3-141	.63	.54	.40	.36
750-1413	4-141	.85	.67	.57	.48
750-1458	5-141	.95	.86	.65	.61
750R1503	6-141	1.03	.94	.74	.63
750-1548	7-141	1.33	1.11	.88	.74
750R1593	8-141	1.43	1.21	.98	.84
750R1678	10-141	1.65	1.51	1.20	1.02
750R1759	12-141	1.93	1.75	1.43	1.17
750-1838	14-141	2.30	2.04	1.63	1.39
750-1878	15-141	2.45	2.16	1.72	1.46
750-1911	16-141	2.58	2.30	1.86	1.55
750-1979	18-141	2.85	2.58	2.06	1.72

Series 142. Terminal centers are 9/16". Base 1 5/16" wide x 5/8" high. Use with Series 162 fanning strips. Av. shpg. wt. 14 oz.

30 AMPS, 1600/2500 VOLT RMS*

750-1322	2-142	.53	.48	.37	.33
750-1371	3-142	.73	.62	.51	.40
750-1416	4-142	.93	.83	.65	.57
750-1461	5-142	1.10	.98	.79	.65
750-1506	6-142	1.35	1.15	.93	.79
750-1596	8-142	1.65	1.50	1.19	1.01
750-1681	10-142	1.98	1.85	1.47	1.21
750-1762	12-142	2.45	2.16	1.72	1.46
750-1914	16-142	3.13	2.87	2.29	1.94
750-1951	17-142	3.33	3.02	2.43	2.03

*Higher Rating Measured With Marker Strip.

MINIATURE BARRIER STRIPS

Series 172 double 2-56x3/16" screw terminals on 1/4" ctrs.; 5/8x5/16" **1000 Volts rms, current depends on size wire used.** 5 oz.

750-1534	6-172	1.68	1.52	1.20	1.03
750-1706	10-172	2.58	2.29	1.86	1.53
750-1784	12-172	2.98	2.68	2.14	1.80
750-1863	14-172	3.38	3.05	2.45	2.04

FEED THRU BARRIER BLOCKS

Barriers between each terminal provide increased insulation; follow edge of strips and terminate at base. Molded phenolic base. All have brass solder terminals with hot-tin dipped finish. Sizes: **Series 140-Y,** 7/8" wide x 5/8" high; **141-Y,** 1 1/8" wide x 1/2" high.

Series 140-Y. Terminal centers are 3/8". Designed for use with Series 160 fanning strips. Av. wt. 5 oz. Ratings: 15 amps, 1100/1200 volts RMS*.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
750-1302	2-140-Y	.53	.44	.36	.33
750-1367	3-140-Y	.63	.56	.44	.37
750-1412	4-140-Y	.88	.73	.60	.53
750-1502	6-140-Y	1.20	1.10	.88	.73
750-1592	8-140-Y	1.53	1.38	1.10	.93
750-1677	10-140-Y	1.85	1.67	1.38	1.14
750-1758	12-140-Y	2.23	1.99	1.59	1.37
750-1910	16-140-Y	2.90	2.60	2.08	1.74
750-2026	20-140-Y	3.55	3.22	2.58	2.15

*Higher Rating Measured With Marker Strip.

Series 141-Y. Terminal center 7/16". For Series 161 fanning strips. Av. wt. 5 oz. 20 amps, 1100/1600 volts rms.*

750-1415	4-141-Y	1.03	.97	.79	.65
750-1505	6-141-Y	1.50	1.35	1.09	.92
750-1595	8-141-Y	1.93	1.74	1.42	1.17
750-1680	10-141-Y	2.40	2.15	1.71	1.45
750-1761	12-141-Y	2.78	2.55	2.04	1.70
750-2029	20-141-Y	4.65	4.23	3.40	2.83

*Higher Rating Measured With Marker Strip.

500 SERIES BARRIER BLOCKS

High barriers between each terminal and closed bottoms provide increased insulation and voltage ratings. Molded phenolic base, brass screw terminals with hot tin-dipped finish.

Series 540. Double 5-40x3/16" binder head screw terminals. Creepage distance 1/2". 1 1/8" wide by 3 3/4" high. Term. 3/8" C.-C., .160" d. holes. 15 A, 2300 V. 14 oz.

750-1540	6-540	1.93	1.88	1.50	1.25
750-1629	8-540	2.40	1.96	1.58	1.35
750-1712	10-540	2.85	2.36	1.89	1.58
750-1788	12-540	3.38	2.72	2.17	1.85
750-1936	16-540	4.20	3.50	2.81	2.36
750-2046	20-540	5.13	4.26	3.42	2.87
750-2075	24-540	6.08	5.02	4.05	3.39
750-2094	30-540	7.48	6.18	4.97	4.13

Series 541. Double 6-32x1/4" binder head screw term. Creepage distance 5/8". 1 3/8" wide x 1 1/16" high. Term. 7/16" C.-C., .175-.180" d. holes. 20 A, 2800 V, RMS.

750-1406	3-541	1.48	1.17	.96	.81
750-1451	4-541	1.65	1.40	1.11	.94
750-1541	6-541	2.18	1.88	1.50	1.25
750-1630	8-541	2.70	2.17	1.74	1.46
750-1713	10-541	3.05	2.56	2.05	1.71
750-1789	12-541	3.63	3.01	2.41	2.01
750-1937	16-541	4.53	3.74	3.00	2.51
750-2047	20-541	5.45	4.55	3.64	3.04
750-2095	30-541	7.88	6.54	5.22	4.35

Series 542. Double 8-32x5/16" binder head screw term. Creepage distance 3/4". 1 5/8" wide x 7/8" high. 30 A, 4000 V RMS. 14 oz.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
750-1542	6-542	2.53	2.06	1.66	1.42
750-1714	10-542	3.78	3.12	2.50	2.06
750-1790	12-542	4.35	3.62	2.90	2.42
750-1938	16-542	5.63	4.67	3.71	3.12
750-2048	20-542	6.83	5.66	4.54	3.81

BARRIER BLOCKS

Series 150. For #10 wire or 50-A solder lugs—#6 stranded wire. 10-32x5/16" term. on 1 1/16" ctrs. 3/4x1 13/16". 50 A, 1700/2600 V RMS.* Wt. 6 oz.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
750-1309	2-150	1.58	1.40	1.12	.94
750-1419	4-150	2.85	2.60	2.08	1.64
750-1509	6-150	4.08	3.80	3.04	2.54
750-1599	8-150	5.43	5.01	4.01	3.34
750-1684	10-150	6.70	6.15	4.92	4.10

*Higher Rating Measured With Marker Strip.

FANNING STRIPS



3/32" Phenolic strips; hole in left end for fastening cable with clamp or twine. Left hand mtg. .032" cadmium-plated brass term. Prefix in Mfr's Type No. indicates no. of terminals. 2 oz.

160L. Fit Series 140 barrier term. on 3/8" ctrs. 1/2" wide.

750-1519	6-160L	1.23	1.02	.82	.69
750-1692	10-160L	1.88	1.59	1.30	1.08
750-1771	12-160L	2.33	1.95	1.53	1.32

161L. Fit Series 141 barrier term. on 7/16" ctrs. 5/8" wide.

750-1612	8-161L	1.58	1.32	1.07	.82
750-1696	10-161L	1.93	1.61	1.32	1.09
750-1775	12-161L	2.43	2.01	1.60	1.36

MARKER STRIPS



Used for labeling terminal positions on barrier strips. Also act as insulators. 1/32" bakelite. Mounting holes match those in corresponding barrier strips. First figure in Mfr's Type no. indicates no. of contacts; last 3 figures indicates barrier series. Strips are numbered sequentially from 1 with white no. 1 oz.

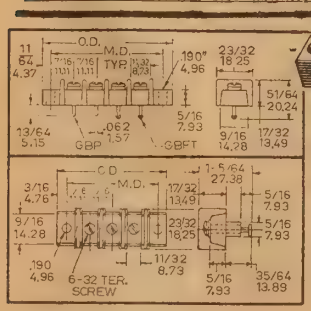
750-0260	MS 3-140	.23	.19	.15	.13
750-0270	MS 4-140	.23	.19	.15	.13
750-0280	MS 5-140	.23	.19	.15	.13
750-0290	MS 6-140	.23	.19	.15	.13
750-0309	MS 8-140	.26	.22	.18	.15
750-0327	MS10-140	.30	.25	.19	.17
750-0340	MS12-140	.30	.25	.19	.17
750-0351	MS14-140	.33	.28	.22	.19
750-0363	MS16-140	.37	.31	.25	.21
750-0375	MS18-140	.37	.31	.25	.21
750-0384	MS20-140	.41	.34	.28	.24
750-0271	MS 4-141	.23	.19	.15	.13
750-0292	MS 6-141	.26	.22	.18	.15
750-0311	MS 8-141	.30	.25	.19	.17
750-0328	MS10-141	.30	.25	.19	.17
750-0342	MS12-141	.33	.28	.22	.19
750-0365	MS16-141	.41	.34	.28	.24
750-0386	MS20-141	.48	.40	.33	.27
750-0294	MS 6-142	.26	.22	.18	.15
750-0344	MS12-142	.41	.34	.28	.24



ADAPTER SOLDER TERMINALS

Types 3/4 W for topside; Y for underside. 141-J and 95B jumpers for connections between barrier block terminal. Tinned brass. Wt. 1 oz.

Stock No.	Mfr's Type	For Series	EACH 1-24	25-49	50-99	100-Up
750-0809	3/4W-140	140	.25	.23	.21	.19
750-0806	Y-140	140	.29	.25	.23	.21
750-0807	Y-141	141	.29	.25	.23	.21
750-0808	Y-142	142	.29	.25	.23	.21
750R1249	141-J	140, 141	.22	.18	.15	.13
750-1240	95B	142	.45	.30	.26	.25





Rated 20 amps, 300 volts. External terminals 6-32 screws, 2 thru 20 terminals Black phenolic. Tin-plated terminals.

Types: GBP, GBFT. Flat base, feed-thru block with turret-type solder terminal (GBFT) on .062" dia. PC pins (GBP) for internal connection. Takes up to #12 AWG wire.

Type GFT. Insulated feed-thru terminal block. Insulation of each terminal for full 1/4" terminal-to-ground clearance through 1/16" chassis. Internal solder connection.

FEED-THRU TERMINAL BLOCKS

TYPE GFT FULLY INSULATED TERMINALS

Stock No.	Mfr's Type	Lgth. In.	EACH 1-24	25-99	100-499	500-Up
764-0502	GFT-2	1 23/32	.72	.46	.42	.41
764-0504	GFT-4	2 17/32	1.42	.89	.81	.78
764-0506	GFT-6	3 13/32	2.08	1.31	1.20	1.14
764-0508	GFT-8	4 1/4	2.75	1.73	1.58	1.52
764-0510	GFT-10	5 1/8	3.42	2.16	1.97	1.89
764-0512	GFT-12	6	4.09	2.58	2.36	2.25
764-0514	GFT-14	6 7/8	4.74	3.01	2.75	2.63
764-0516	GFT-16	7 3/4	5.43	3.43	3.14	3.00
764-0520	GFT-20	9 1/2	6.75	4.28	3.91	3.75

TYPE GBP PRINTED CIRCUIT PINS

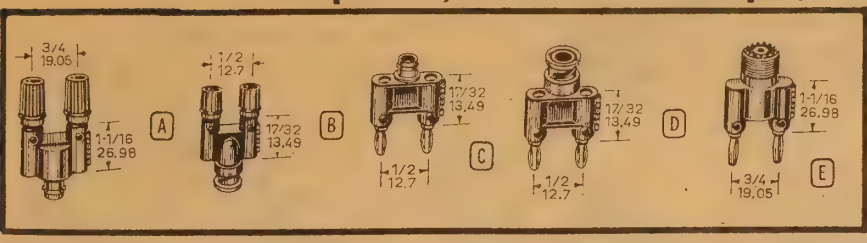
Stock No.	Mfr's Type	Lgth. In.	EACH 1-24	25-99	100-499	500-Up
764-0404	GBP-4	2 17/32	1.20	.78	.70	.67
764-0408	GBP-8	4 1/4	2.32	1.47	1.34	1.28
764-0410	GBP-10	5 1/8	2.87	1.81	1.66	1.58
764-0416	GBP-16	7 3/4	4.52	2.85	2.77	2.64

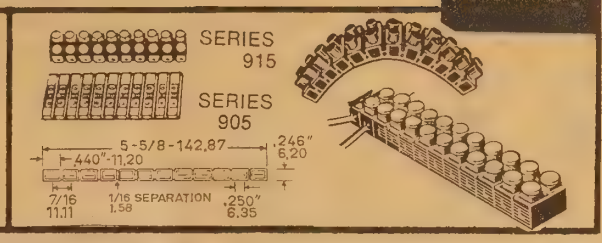
TYPE GBFT FEED-THRU TURRET TERMINALS

764-0606	GBFT-6	3 13/32	1.77	1.12	1.02	.97
764-0608	GBFT-8	4 1/4	2.32	1.47	1.34	1.28
764-0612	GBFT-12	6	3.42	2.16	1.97	1.89

Write, Wire or Phone Allied Electronics for Larger Quantity Prices

Adapters, Terminal Strips, Solderless Blocks





DUAL INSTRUMENT ADAPTERS

Excellent quality male, female dual binding post adapters. Insulated 5-way binding posts for efficient, reliable service in an infinite amount of applications. Come with red and black heads on ¾" centers except *½" centers. Banana jack holes are provided for side stacking. Packages of 1. Strong molded butyrate body to resist breakage or splitting that often occurs due to temperature variations. Brass conductor; beryllium copper spring, molded nylon head. Ratings: Current is 15 amps (*5 amps) AC for 10°C, rise is continuous duty except where limited by coaxial connectors; voltage is 5 kV (*2 kV) 60 cycle AC. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	Fig.	Front Connection	EACH 1-9	10-24	25-99	100-Up
920-1789	1689	A	BNC/female	6.21	4.97	4.14	3.55
920-1788	1688	B	BNC male	6.21	4.97	4.14	3.55
920-1790	1690	C	UHF female to banana	6.21	4.97	4.14	3.55
920-1797	1697	D	BNC female to dual banana	12.15	9.72	8.10	6.94
920R1866	1756*	B	Bind. post to BNC male	6.21	4.97	4.14	3.55
920R1868	1758*	D	BNC female to banana	4.05	3.24	2.70	2.31
920-1869	1759*	E	BNC male to banana	5.33	4.27	3.56	3.08

BLACK AND TRANSPARENT SOLDERLESS BLOCKS

- **Sturdy Polyvinylchloride**
- **12 or 24 Terminals**

Series 915 are flexible blocks for use with ¼" quick-disconnect terminals. If you need a smaller size, the series of terminals can easily be cut to fit your needs. Transparent polyvinylchloride. 20 amperes maximum, 250 volts at 80°C maximum. #12 wire maximum. (*) The last two numbers in the Type No. indicate the number of terminals. Wt. 4 oz.

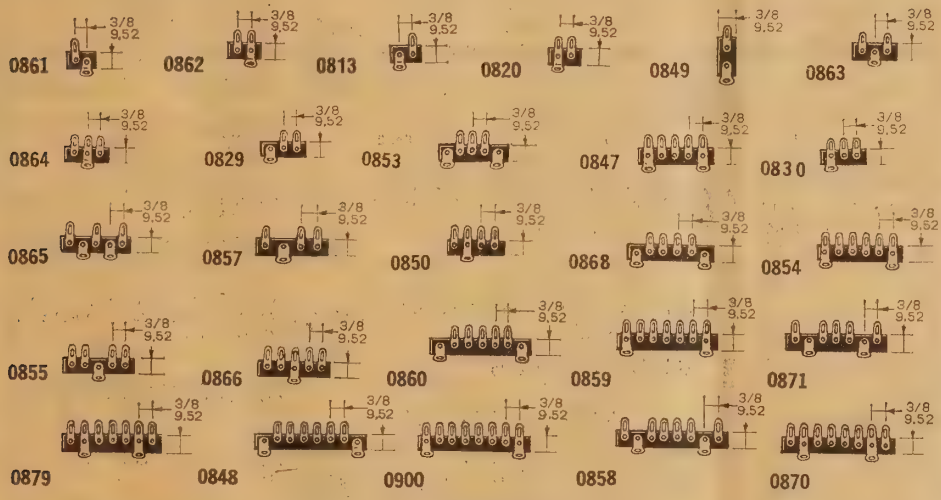
Stock No.	Mfr's Type	Description	Length	EACH 1-9	10-24	25-99	100-Up
868-1027	915-12*	Flexible	$2^{13}/_{16}$x$1^{1}/_{8}$"	.93	.74	.62	.53
868-1031	915-24*	Flexible	$5^{5}/_{8}$x$1^{1}/_{8}$"	1.85	1.48	1.23	1.06

Series 905. Solderless block. Bends in any direction. Series of terminals can be cut to fit your needs. Flexible polyester. 30 A max. 380 V at 60°C maximum. Each ½ x ⅝ x 3¾" with $1^{1}/_{32}$" spacing between terminal centers. #10 wire maximum. 12 terminals. Ship. wt. 4 oz.

868-1020. 1-9 ..... Each 1.67 10-24 ..... Each 1.26
25-99 ..... Each .98 100-Up ..... Each .85

9

Type Numbers Last 4 Digits of Allied Stock No.



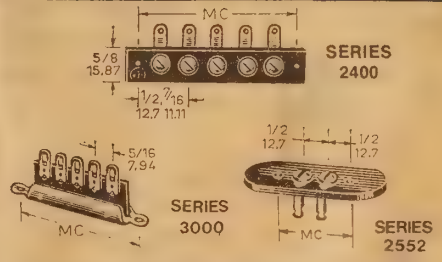
LUG-TYPE TERMINAL STRIPS

- **26 Types to Choose From**
- **Solder-Coated Steel Lugs for Fast Soldering**
- **Bakelite Strips Provide Dependable Insulation**
- **Highest Quality Materials and Workmanship**

Quality lug-type terminal strips, dark brown bakelite, $^{1}/_{16}$" thick x ⅜" wide. Equipped with solder-coated steel lugs with ⅜" centers, $^{9}/_{64}$" diameter mounting holes. Shipping weight 1 oz. Buy larger quantities and save!

Stock No.	Mfr's Type		EACH 1-99	100-499	500-999	1000-Up
868-0830	211	52C	.08	.06	.05	.04
920-0853	853	53	.15	.11	.10	.08
868-0847	21112	53A	.15	.12	.10	.09
868-0865	13131	53B	.12	.10	.08	.07
868-0857	1311	53E	.10	.08	.07	.06
868-0850	1211	53F	.10	.08	.07	.06
868-0868	311113	54	.15	.12	.10	.09
868-0854	211112	54A	.14	.12	.10	.09
868-0855	11311	54B	.10	.08	.07	.06
868-0861	13	51	.08	.06	.05	.04
868-0862	12	51A	.07	.06	.05	.04
868-0813	31	51B	.08	.06	.05	.04
868-0820	21	51C	.07	.06	.05	.04

Stock No.	Mfr's Types		EACH 1-99	100-499	500-999	1000-Up
868-0849	AD	51F	.10	.08	.07	.06
868-0863	131	52	.08	.06	.05	.04
868-0864	121	52A	.08	.06	.05	.04
868-0829	311	52B	.08	.06	.05	.04
868-0866	11211	54C	.10	.08	.07	.06
868-0860	3111113	55	.15	.12	.10	.09
868-0859	2111112	55A	.15	.12	.10	.09
868-0871	1311131	55B	.14	.12	.10	.09
868-0879	1211121	55C	.15	.12	.10	.09
868-0848	31111113	56	.18	.14	.12	.11
868-0900	21111112	56A	.18	.14	.12	.11
868-0858	13111131	56B	.18	.14	.12	.11
868-0870	12111121	56C	.18	.14	.12	.11



SCREW-TYPE TERMINAL STRIPS

For multiple outputs. Bakelite strips are $^{1}/_{16}$" thick. Solder-coated brass terminals are on $^{7}/_{16}$" centers with $^{9}/_{64}$" mounting holes. For a variety of connecting applications. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	EACH 1-99	100-499	500-999	1000-Up
868-0875	2405	5	$2^{5}/_{8}$"	.40	.32	.27	.23
868-0876	2406	6	$3^{1}/_{16}$"	.49	.39	.33	.29
868-0930	2410	10	$4^{13}/_{16}$"	.80	.64	.53	.46

SERIES 3000 TERMINAL STRIPS

Steel terminals with cadmium plating for easy soldering. Spaced on $^{5}/_{16}$" centers. Insulated strip of rugged, molded bakelite. Cadmium-plated steel mounting base. Mounting holes at each end of base for No. 6 screws. 1 oz.

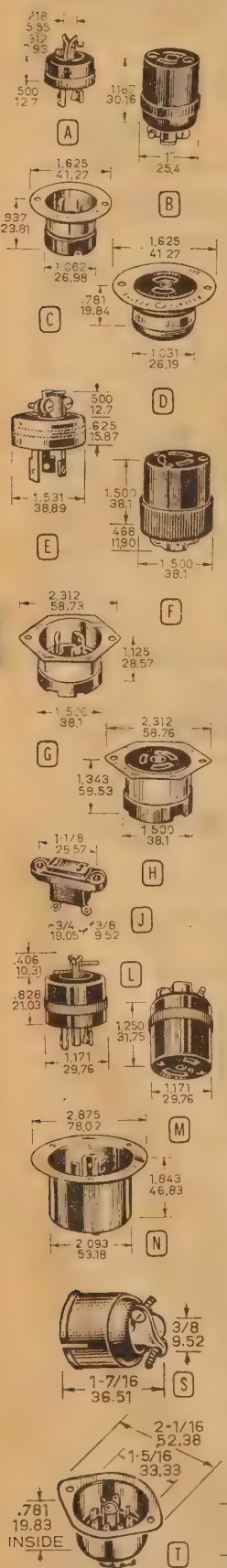
Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	EACH 1-99	100-999	1000-2499	2500-Up
920-2802	3002	2	1"	.19	.14	.11	.10
920-2803	3003	3	$1^{5}/_{16}$"	.20	.16	.13	.11
920-2804	3004	4	$1^{5}/_{8}$"	.23	.18	.15	.13
920-2805	3005	5	$1^{15}/_{16}$"	.24	.19	.16	.13
920-2806	3006	6	$2^{1}/_{4}$"	.26	.20	.17	.14
920-2807	3007	7	$2^{9}/_{16}$"	.27	.21	.18	.15
920-2808	3008	8	$2^{7}/_{8}$"	.30	.24	.20	.17
920-2810	3010	10	$3^{1}/_{2}$"	.36	.29	.24	.20
920-2812	3012	12	$4^{1}/_{8}$"	.41	.32	.27	.23
920-2813	3013	13	$4^{7}/_{8}$"	.43	.35	.29	.25

TERMINAL STRIP

Carefully constructed of black $^{3}/_{32}$" bakelite. Screw-type terminals are cadmium plated with tinned lugs. Use for many connecting applications. Average shpg. weight 4 oz.

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	EACH 1-99	100-499	500-999	1000-Up
868-0902	2552	2	$1^{1}/_{2}$"	.22	.18	.15	.13

Assorted Connectors



MIDGET 2-WIRE NONPOLARIZED TYPES

Type 7428N Male cap and Type 7427 female connector are brown bakelite with metal cable clamps for 7/16 to 1/2" O.C. cords. Type 7466 male base, Type 7468 female base are bakelite with metal housings. Rated 10 amps at 250V; 15 amps. 125V. U.L. recognized. Ship. wt. 2 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-Up
813-7428	7428N	A	Male Cap	2.84	1.82	1.59
813-7427	7427	B	Female Conn.	2.84	1.82	1.59
813-7466	7466	C	Male Base	4.03	2.58	2.26
813-7468	7468	D	Female Base	3.69	2.36	2.07

MIDGET 3-WIRE POLARIZED TYPES

Similar to above but for 3-conductor cables. Insulation is black bakelite. Clamps will accommodate cords from 9/32-27/64" O.D. Polarization prevents incorrect connection. Rated 15 amps at 125/250V. U.L. recognized. 3 oz.

813-7485	7485	A	Male Cap	3.27	2.09	1.83
813-7484	7484	B	Female Conn.	4.50	2.88	2.52
813-7486	7486	C	Male Base	3.99	2.56	2.24
813-7487	7487	D	Female Base	4.87	3.12	2.73

STANDARD 3-WIRE POLARIZED TYPES

Type 7572, Type 7556, Type 7557 have rust-resistant metal housing. Type 7555 is bakelite. Clamps take cords 19/64" to 9/64" O.D. All 10 amps at 250V; 15 amps, 125V. * Armored. Wt. 4 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-Up
813-7572	7572	E	Male Cap*	4.31	2.76	2.41
813-7555	7555	F	Female Conn.	5.88	3.76	3.29
813-7556	7556	G	Male Base	5.26	3.37	2.95
813-7557	7557	H	Female Base	5.63	3.60	3.15

CHASSIS MOUNTING AC SOCKET

Compact AC socket has lug terminals. Rated 10 amps at 250 volts or 15 amps at 125 volts. Mnt. hole. 25/64×25/32". Overall, 1 1/2×1 1/2". UL recognized. 1 oz.

Stock No.	Mfr's Type	Fig.	EACH 1-9	10-24	25-49	50-Up
750R0829	2R2	J	.53	.41	.35	.32

MIDGET 3-WIRE GROUNDING TYPES

Positive lock connectors designed for 15 amp, 125 V grounding applications. Hollow brass grounding sleeve in cap mates with brass split pin. All 15/32" dia. *With cord grips. UL recognized. 3 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-49	50-Up
813-7593	6484	M	Female Conn.*	5.51	3.53	3.09
813-7594	6485	L	Male Cap*	4.11	2.63	2.30

HEAVY-DUTY 3-WIRE POLARIZED TYPES

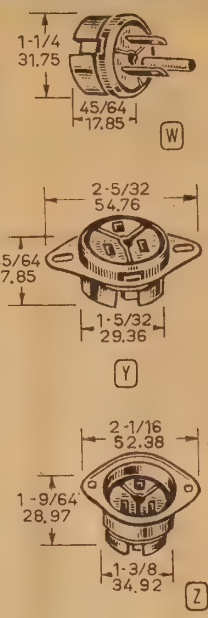
Type 7313 has bakelite housing; Type 7327 has rust-resistant metal. Clamps take cords 7/16-3/4" O.D. Rated 20 amps at 125/250V. U.L. recognized. Av. shpg. wt. 4 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-49	50-Up
813-7313	7313	F	Female Conn.	8.19	5.24	4.59
813-7327	7327	N	Male Base	8.76	5.60	4.91

AC CONNECTOR ASSEMBLIES

For Types 61, 160, 78S, 86CP, other grooved connectors. Drawn steel. Lower bottom of sockets, plugs, connectors, 1 3/16" below mounting surface. For cable-to-cable or cable-to-panel applications. Type 86-3-24 cable clamp to 3/8" thick cable; 1 7/16" long. Type 160-61-61 recessed mounting shell lowers S sockets, CP plugs and outlet type connectors 1 3/16" below surface; fits 1 7/16" hole: 5/32" mnt. holes on 1 3/4" ctrs. Wt. 3 oz.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-24	25-49	50-99	100-Up
713-0024	86-3-24	S	Blk. plug cap	1.02	.77	.64	.56
713-2123	160-61-61	T	Recess. shell	1.02	.64	.54	.47



PLUGS AND SOCKETS

61 series is 2 pole; 160 series is 2 pole with grounding lug. Black Nylon rated 15 A at 120V AC/DC. U.L. Recog. Fig. Y types have molded-in mtg. plates except, § retaining-ring-mounted plate; require 19/32" mtg. holes and have 5/32" slotted holes on 1 1/2" to 1 7/8" ctrs., except 61-MIP-61F, 1 3/16" mtg. hole. 5/32" holes on 1 1/2" ctrs. Fig. Z types mount in 1 7/16" hole, have two 5/32" holes on 1 3/4" cts. *Not illus. Wt., 3 oz. 160-8N consists of 713-5210 and 713-0024. 160-9N consists of 713-5211 and 713-0024.

Stock No.	Mfr's Type	Fig.	Desc.	EACH 1-24	25-49	50-99	100-Up
713-2112	160-61M	W	male	1.62	1.03	.86	.74
713-2101	160-61F	"	female	1.57	1.00	.83	.73
713-2102	160-61F1	Y	§female	1.90	1.21	1.01	.87
713-2117	160-61-M1P-61F	Y	female	1.63	1.03	.86	.74
713-2110	160-61-F10	Z	female	2.20	1.82	1.52	1.32
713-5210	160-10N	"	female	2.25	1.70	1.41	1.23
713-5211	160-11N	W	male	2.65	2.00	1.67	1.45
713R5262	160-2N	Y	female	2.38	1.80	1.50	1.30
713-5204	160-3N	Y	male	3.30	2.49	2.08	1.80
713-5203	160-4N	Z	female	3.58	2.70	2.25	1.95
713R5205	160-5N	Z	male	3.88	2.93	2.44	2.12

ELECTRICAL ACCESSORIES

Fret no more when it comes to ordering the electrical accessories you want! Allied Electronics stocks in-depth everything you see listed here. Buy now or later . . . in any quantity. We've got them on hand whenever you need a bunch . . . and at prices we think you'll really like.



TYPE 179 RUBBER HANDLE PLUG. Approved for 2-wire 15 amp use. Use with Type 178 for extension cords. 9/16 d. x 1 9/16" l. U.L. recognized, C.S.A. listed. Wt. 4 oz.
785-0179. 1-24 Ea. .33 25-99 Ea. .26 100-Up ..... Ea. .21



TYPE 84B FLAT RUBBER SIDE/OUTLET PLUG. Prongs molded into vinyl; insulated binding screws. 15 amps at 125 volts. 1 1/4 l., 1/2 w., 1" h. U.L. recognized, C.S.A. listed. Shpg. wt. 2 oz.
785-0084. 1-24 Ea. .47 25-99 Ea. .38 100-Up ..... Ea. .30



TYPE 919B BAKELITE PLUG. With fingergrip. Cap size, 5/8×1 7/16×1 9/16". Screw terminals. 15 amps. Brown. U.L. recognized, C.S.A. listed. 4 oz.
785-0919 1-24 Ea. .40 25-99 Ea. .32 100-Up ..... Ea. .26



TYPE 400B VINYL CUBE TAP. Brass spring prongs. 3-way outlet. Rated 15 amps at 125 volts. 1 1/2 h.x 1/2" w. U.L. recognized. Shpg. wt. 8 oz.
785-0400 1-24 Ea. .58 25-99 Ea. .46 100-Up ..... Ea. .37



TYPE C900B JIFFY PUSH-PULL PLUG. Push POSJ cable through hole in cap. Pull for positive connections. 1 1/4 l. x 1/4"w. C.S.A. listed.
785-0009 1-24 Ea. .33 25-99 Ea. .24 100-Up ..... Ea. .19



TYPE 183B FLAT RUBBER PLUG. Molded cap. Easily disassembled. Screw terminal wiring. 15 amps at 125 V. 1 1/4 l. x 1 1/4"w. U.L. recognized, C.S.A. listed. Wt. 3 oz.
785R0183 1-24 Ea. .45 25-99 Ea. .36 100-Up ..... Ea. .29



TYPE 203 PARALLEL GROUND PLUG. Rubber handle. "U" ground. 3-wire. Two fit standard duplex receptacle. 1/2 d. x 1 5/8". l. U.L. recognized, C.S.A listed. 2 oz.
785R0203 1-9 Ea. 1.27 10-24 Ea. 1.02 25-Up ..... Ea. .82



TYPE 178 RUBBER LINE CORD CONNECTOR. Rated 15 amps at 125 volts. Cable clamp. 1 1/4 d. x 2 1/4 h. x .450" hole. U.L. recognized, C.S.A. listed. Wt. 3 oz.
785-0178 1-24 Ea. .95 25-99 Ea. .76 100-Up ..... Ea. .61



TYPE 2RP RECESSED PLUG. Designed for input voltage connector for TV sets. Cad. plated tin steel housing 1 5/8×5/8×5/16". 1 1/4 mtg. ctrs. Holes .140/.145. 7 amps at 125 volts. U.L. recognized. Shpg. wt. 1 oz.
750-0830. 1-9 ..... Each .36 10-24 Each .32 25-Up Each .25



TYPE 222 PARALLEL GROUND RUBBER CONNECTOR. 3 bronze contacts. 15 amps @ 125 V. Cable clamp. 2 29/32 h. x .60" cord hole. U.L. recognized, C.S.A. listed. Shpg. wt. 3 oz.
785R0222. 1-9 ..... Each 2.65 10-24 Ea. 2.12 25-Up Ea. 1.70



TYPE 832 BAKELITE PARALLEL GROUND ADAPTER. Adapts 3-prong plugs for standard 2-prong AC outlets. Double-wipe contacts. 15 amps @ 125 V. 1 15/32 d. x 1 9/32" h. Shpg. wt. 3 oz.
785-0832. 1-9 Ea. .90 10-24 Ea. .72 25-Up ..... Ea. .58



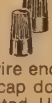
TYPE 86B FLAT RUBBER CORD CONNECTOR. Matches 84B, 919B. Double-wipe contacts. Insulated screws. 1 1/8 l. x 9/16 w. x 2" h. U.L. recognized, C.S.A. listed. 3 oz.
785-0086. 1-9 Ea. 1.00 10-24 Ea. .80 25-Up ..... Ea. 64



TYPE 202 LARGE RUBBER HANDLE PLUG. Cord clamps. 1 1/2 d. x 1 5/8" h. U.L. recognized, C.S.A. listed, 3 oz.
785-0202. 1-9 Ea. .60 10-24 Ea. .48 25-Up ..... Ea. .38



TYPE 419 VINYL PARALLEL GROUND ADAPTER. Same function as Type 832. 15 amps @ 125 V. 1 1/16 l. x 1 w. x 1 9/16" h. U.L. recognized. 3 oz.
785R0419.1-9 Ea. .52 10-24 Ea. .42 25-Up ..... Ea. .33



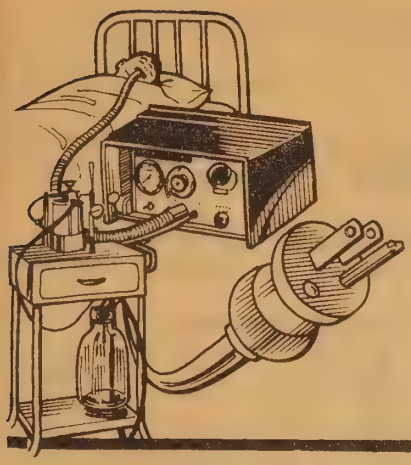
SOLDERLESS WIRE CONNECTOR

Strip wire end; push into connector, screw cap down — wire firmly interconnected. U.L. listed, C.S.A. recognized. Sold per pkg. of 100 only.

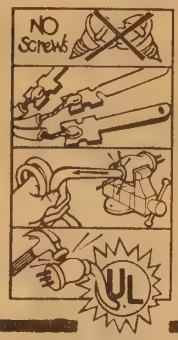
Stock No.	Mfr's Type	Wire Size	PKG./100 1-9	10-Up
785R0033	33	16-18	2.55	2.04
785-0044	44	12-18	2.85	2.28
785-0066	66	10-18	3.98	3.18

Hospital Grade Wiring Devices

U.L. LISTED HOSPITAL GRADE POWER SUPPLY CORDS



"Rhino-Hide™" Power Supply Cords with molded-on plugs. For continuous, reliable use in medical instrumentation and equipment in hospitals and other strenuous environments. Designed to withstand the most torturous treatment . . . stringently tested to assure dependability.



Molded-on Plug

Durable, reliable

Subjected to tough testing

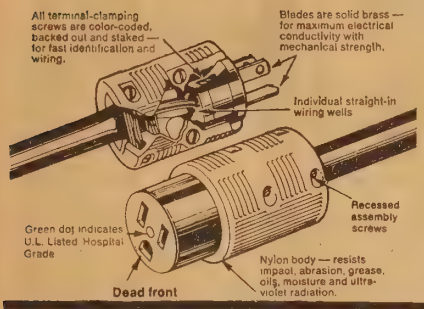
Endures abusive treatment

Contoured plug is molded onto the power supply cord; nothing to assemble. Tapered design slips over obstructions when dragged; permits safe, firm, easy-to-find grip. Rugged PVC body resists water, corrosion, crushing and impact. Permanent all-soldered connections for reliability. Hi-strength blades are plated with corrosion-resistant nickel alloy. Withstands abusive treatment—unique built-in internal relief locks cord into plug, preventing cord pull-out. Each cord is subjected to thorough electrical testing. Samples from each lot undergo a variety of torture tests: crush, drop, twist, abrupt-removal-from-receptacle, cord-strain relief, impact and X-ray examination. "Rhino-Hide" all-vinyl cord is extra-flexible; won't crack or peel, resists dust, ozone, oil, grease and most chemicals. Available in 10' or 12' length; clear or light gray color. 3-wire design.

Stock No.	Mfr's Type	Lgth.	AWG Size	Plug Color	EACH 1-9	10-24	25-49	50-Up
510-0100	14700-10	10'	18/3 SJT	Lt. gray	7.87	6.30	4.85	4.50
510-0120	14701-12	12'	16/3 SJT	Lt. gray	9.45	7.56	5.82	5.40
510-0140	14700-T10	10'	18/3 SJT	Clear	8.77	7.02	5.40	5.02
510-0160	14701-T12	12'	16/3 SJT	Clear	10.50	8.40	6.47	6.00

HIGH ABUSE NYLON PLUGS AND CONNECTORS

U.L. Listed Hospital Grade; U.L. Verified to Meet Federal Specification W-C-596d



PLUGS: Solid brass blades for maximum electrical conductivity and mechanical strength. Terminal-clamp screws are color-coded, backed out and staked for fast identification and wiring. Individual straight-in wiring wells eliminate danger of flashover, shorts.

CONNECTORS: Nylon body resists impact, abrasion, grease, oil, moisture, UV radiation. Recessed assembly screws are isolated from "live" parts. Blades and terminals are set into molded nylon insert to provide Dead Front.

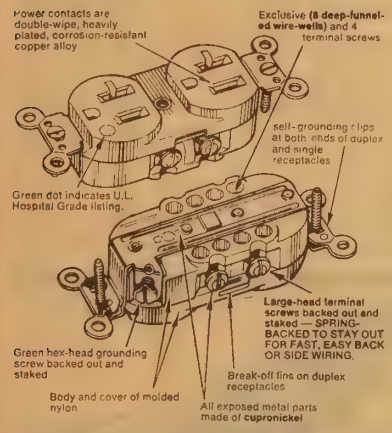
Clamptite Cord Grip: Built-in nylon cord clamp. Accepts cord from .250" thru .700" dia. (AWG #18/3 to 10/3).

Designed to provide total safety in high abuse applications where constant, strenuous use is evident. Offers protection against possible human negligence. Plugs and connectors are corrosion-resistant for use in environments where exposed to cleaning fluids, rug shampoos, water, salt air, chemical fumes, etc. Withstand impact, wear, crushing and corrosive environments that would destroy ordinary heavy-duty wiring devices. High-Abuse plugs and connectors meet rugged tests for U.L. Hospital Grade Listing: cord strain relief test and crush test. Plugs also undergo tests for mechanical drop, abrupt removal, impact. Connectors tested for pin/blade retention, resistance and impact.

Stock No.	Mfr's Type	Description	Amps	Volts	EACH 1-9	10-24	25-49	50-Up
510-0200	5266-HGN	Plug	15	125	4.25	3.40	2.62	2.43
510-0220	5269-HGN	Connector	15	125	7.15	5.72	4.40	4.09
510-0240	5366-HGN	Plug	20	125	5.17	4.14	3.19	2.96
510-0260	5369-HGN	Connector	20	125	8.45	6.76	5.21	4.83

SPEC-MASTER HIGH ABUSE RECEPTACLES

Combines U.L. Listed Hospital Grade with Corrosion-Resistance



All exposed metal parts are corrosion-resistant Cupro-Nickel, offering maximum anti-magnetic, anti-sparking properties. Power contacts are double-wipe, heavily plated, corrosion-resistant copper alloy for maximum conductivity. Eight deep-funneled wire wells with 4 terminal screws for feed-thru back and side wiring. Groundamatic self-grounding clips at both ends. Large-head terminal screws backed out and staked; spring-backed to stay out. Accept up to #10 AWG wire. Break-off fins for easy two-circuit conversion. Molded nylon body and cover. Subjected to rigorous tests including: abrupt-removal-of-the-plug, pin/blade retention, fault current, impact, terminal strength and resistance.

For use in accordance with Federal, State, County, Municipal and Local Codes as required by OSHA.

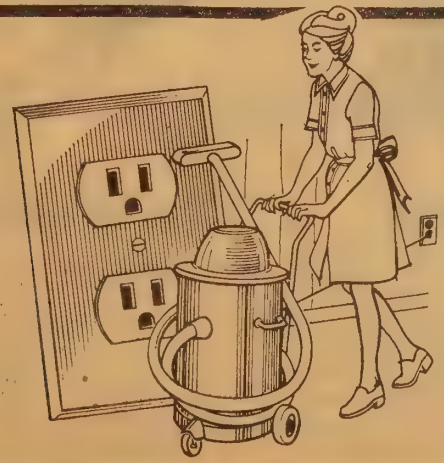
Comply with U.L. Hospital Grade Tests, NEMA Standard WD-1, Heavy Duty Fed. Spec. W-C-596d and ASTM B-117-73 Salt Spray (Fog) 500-hour Corrosion-Resistance Test. *Substitute digit for *N* in Stock No. to indicate color: 1—ivory; 2—red; 3—brown; 4—gray; 5—white.

Stock No.*	Mfr's Type	Amps	Volts	Colors Available	EACH 1-9	10-24	25-49	50-Up
510-030N	5262-HG	15	125	1-5	7.37	5.90	4.54	4.22
510-031N	5362-HG	20	125	1-5	8.45	6.76	5.41	4.83
LIGHTED RECEPTACLES								
510-040N	5262-HL	15	125	1-2, 5	9.85	7.88	6.07	5.63
510-041N	5362-HL	20	125	1-2, 5	11.37	9.10	7.00	6.51

ISOLATED GROUND RECEPTACLES

Wired to separate ground, eliminating interference to sensitive electronic equipment.

Stock No.	Mfr's Type	Amps	Volts	Color	EACH 1-9	10-24	25-49	50-Up
510-0320	5262-IG	15	125	Orange	8.42	6.74	5.20	4.82
510-0340	5362-IG	20	125	Orange	9.87	7.90	6.08	5.65



SPEC-MASTER HIGH ABUSE NYLON WALLPLATES

(Not Hospital Grade)

The strength of steel . . . but non-conductive and corrosion-resistant

Choice of Colors—Brown, Ivory, Red or Gray

Rugged molded nylon wallplates offer maximum resistance to impact, grease, oils, moisture and other environmental hazards. U.L. Listed. Conform to NEMA and ANSI Standards. High dielectric strength, meeting or surpassing Standard UL 514. Complies with ASTM B-117-73 Salt Spray (Fog) 500-hour Corrosion-Resistance Test. Tested in accordance with Standard UL 514 and Federal Specification W-P-455a, including (in part): material of composition, mechanical strength, dielectric strength and fire resistance.

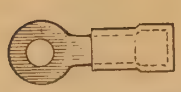
Smooth, easy-to-clean surface. Includes corrosion-resistant stainless steel mounting screws matching color of plate. Full .100" thick, with reinforcing ribs for added strength at points of greatest stress.

Stock No.	Mfr's Type	Color	EACH 1-9	10-24	25-49	50-Up
510-0503	85003-HG	Brown	2.02	1.62	1.25	1.16
510-0501	86003-HG	Ivory	2.02	1.62	1.25	1.16
510-0502	80003-HG	Red	2.02	1.62	1.25	1.16
510-0504	87003-HG	Gray	2.02	1.62	1.25	1.16
510-0505	88003-HG	White	2.02	1.62	1.25	1.16

CODE COMPLIANCE: High Abuse devices are suitable for use in accordance with Federal, State, County, Municipal and Local Codes, including NFPA No. 70-1975 and NFPA No. 70-1971 (ANSI C1-1971) National Electrical Code, as required by OSHA. Suitable for use in Health Care Facilities, as defined in Article 517, NFPA Nos. 70-1975 and 70-1971. Note: U.L. does not list wallplates "Hospital Grade."

Solderless Terminals, Kits, Crimping Tool

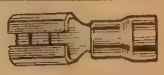
TONGUE-STYLE TERMINALS
INSULATED AND NON-INSULATED


R
RING

BSF
FLANGED
BLOCK SPADE

BS
BLOCK
SPADE

BUTT

MALE

FEMALE

Choose from Ring, Block Spade and Flanged Block Spade style insulated or non-insulated terminals. All are constructed of electrolytic copper and are tin-plated for maximum conductivity and corrosion resistance. Sturdy, fast connect, disconnect. Resist loosening effect of vibration. NEMA color-coded, vinyl and nylon. Provides excellent electrical connections with high mechanical characteristics. Male and female disconnectors and Butt connector also available—see table below. **Sold only in packages of 100.**

SOLD IN PACKAGES OF 100

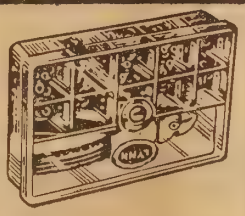
Wire Size	Stud Size	Tongue Inches	Width CM	Type	NON-INSULATED TERMINALS Stock No.	Mfr's Type	PRICE PER PACKAGE 1-9	10-49	50-99	100-Up	INSULATED TERMINALS Stock No.	Mfr's Type	PRICE PER PACKAGE 1-9	10-49	50-99	100-Up
22-18	4	.231	.585	Ring	.....	.....	....	....	....	....	975-6704	R4A-4S	5.98	4.60	3.83	3.19
22-18	6	.266	.675	Ring	975-5405	R1A-6S	2.14	1.65	1.37	1.14	975-6705	R4A-6S	5.98	4.60	3.83	3.19
22-18	8	.344	.873	Ring	975-5408	R1A-8	2.14	1.65	1.37	1.14	975-6708	R4A-8	5.98	4.60	3.83	3.19
22-18	10	.344	.873	Ring	975-5410	R1A-10	2.14	1.65	1.37	1.14	975-6710	R4A-10	5.98	4.60	3.83	3.19
22-18	¼	.469	1.191	Ring	975-5411	R1A-14S	3.65	2.85	2.28	1.94	975-6715	R4A-14S	6.40	5.00	4.00	3.40
16-14	6	.266	.675	Ring	975-5425	R1B-6	2.14	1.65	1.37	1.14	975-6735	R4B-6S	5.98	4.60	3.83	3.19
16-14	8	.344	.873	Ring	975-5428	R1B-8	2.14	1.65	1.37	1.14	975-6738	R4B-8	5.98	4.60	3.83	3.19
16-14	10	.344	.873	Ring	975-5430	R1B-10	2.14	1.65	1.37	1.14	975-6740	R4B-10	5.98	4.60	3.83	3.19
16-14	¼	.469	1.191	Ring	975-5435	R1B-14S	3.65	2.85	2.28	1.94	975-6745	R4B-14S	6.40	5.00	4.00	3.40
16-14	⅜	.563	1.429	Ring	975-5437	R1B-38	3.65	2.85	2.28	1.94	975-6750	R4B-38	6.40	5.00	4.00	3.40
12-10	10	.375	.953	Ring	975-5440	R1C-10	3.66	2.82	2.35	1.96	975-7000	R4C-10	7.04	5.50	4.40	3.74
12-10	¼	.609	1.549	Ring	975-5444	R1C-14	5.06	3.89	3.24	2.70	975-7005	R4C-14	7.84	6.13	4.90	4.17
12-10	⅜	.609	1.549	Ring	975-5450	R1C-38	5.06	3.89	3.24	2.70	975-7010	R4C-38	7.84	6.13	4.90	4.17
22-18	5-6	.297	.753	Spade	.....	.....	....	....	....	....	975-8104	93204	6.24	4.80	4.00	3.34
22-18	6	.313	.794	Block Spade	975R5606	BS1A-6	2.14	1.65	1.37	1.14	975R7106	BS4A-6	5.98	4.60	3.83	3.19
22-18	10	.313	.794	Block Spade	975-5610	BS1A-10	2.14	1.65	1.37	1.14	975-7110	BS4A-10	5.98	4.60	3.83	3.19
16-14	6	.313	.794	Block Spade	975R5636	BS1B-6	2.14	1.65	1.37	1.14	975R7136	BS4B-6	5.98	4.60	3.83	3.19
16-14	10	.313	.794	Block Spade	975-5640	BS1B-10	2.14	1.65	1.37	1.14	975-7140	BS4B-10	5.98	4.60	3.83	3.19
12-10	10	.375	.953	Block Spade	975-5675	BS1C-10	3.66	2.82	2.35	1.96	975-7175	BS4C-10	7.04	5.50	4.40	3.74
22-18	6	.313	.794	Block Flanged Spade	975-5706	BSF1A-6	2.14	1.65	1.37	1.14	975-7206	BSF-4A-6	5.98	4.60	3.83	3.19
22-18	10	.313	.794	Block Flanged Spade	975-5710	BSF1A-10	2.14	1.65	1.37	1.14	975-7208	BSF4A-10	5.98	4.60	3.83	3.19
16-14	6	.313	.794	Block Flanged Spade	975-5750	BSF1B-6	2.14	1.65	1.37	1.14	975-7190	BSF4B-6	5.98	4.60	3.83	3.19
16-14	10	.313	.794	Block Flanged Spade	975-5760	BSF1B-10	2.14	1.65	1.37	1.14	975-7230	BSF4B-10	5.98	4.60	3.83	3.19
22-18	...	.250	.635	Male Disconnect	975-6102	M1TA-250	2.36	1.82	1.51	1.26	975-7550	M4TA-250	5.98	4.60	3.83	3.19
16-14	...	.187	.476	Male Disconnect	975-6125	M1T-187	2.36	1.82	1.51	1.26	975-7595	M4T-187	5.98	4.60	3.83	3.19
16-14	...	.250	.635	Male Disconnect	975-6131	M1T-250	2.36	1.82	1.51	1.26	975-7601	M4T-250	5.98	4.60	3.83	3.19
22-18	...	.187	.476	Female Disconnect	975R6104	FR1A-187	2.36	1.82	1.51	1.26	975-7612	FR4A-187	6.24	4.80	4.00	3.34
22-18	...	.250	.635	Female Disconnect	975-6110	FR1A-250	2.36	1.82	1.51	1.26	975-7615	FR4A-250	6.24	4.80	4.00	3.34
18-14	...	.187	.476	Female Disconnect	975-6115	FR1B-187	2.36	1.82	1.51	1.26	975-7604	FR4B-187	6.24	4.80	4.00	3.34
18-14	...	.250	.635	Female Disconnect	975R6132	FR1B-250	2.36	1.82	1.51	1.26	975R7602	FR4B-250	6.24	4.80	4.00	3.34
18-14	...	.250	.635	Right Angle Fem. Disc.	975-6134	FLFR1B-250	2.83	2.12	1.84	1.38	.....	.....	....	....	....	....
22-18	...	....	.....	Butt Connector	975-6002	B1A	2.47	1.90	1.59	1.32	975-7502	B4B	4.49	3.46	2.88	2.40
16-14	...	....	.....	Butt Connector	975-6032	B1B	2.47	1.90	1.59	1.32	975-7532	B4A	4.49	3.46	2.88	2.40
12-10	...	....	.....	Butt Connector	975-6042	B1C	3.96	3.10	2.48	2.11	975-7540	B4C	7.90	6.18	4.94	4.20
22-18	8	.359	.912	Hook	975-5808	H1A-8	2.14	1.65	1.37	1.14	.....	.....	....	....	....	....



- Popular Assortment
- Carrying Case
- Rugged Crimper

TERMINAL KITS WITH CRIMPER/CUTTER

MODEL TDY21-G1. Popular assortment contains 500 insulated single-grip solderless terminals, plus rugged combination cutter-crimper tool for correct installation. Package includes: 20 different types and sizes of terminals; plus Model TDY101 high-grade steel service tool. Compact steel carrying / storage case measures 13⅝" wide, 9¾" deep, 2" high. Shpg. wt., 6 lbs.
975R4063. 1-4 Ea. 42.50 5-Up Ea. 36.25



- 144 Solderless Terminals
- TDY101 Crimper

ASSORTED TERMINALS SERVICING OUTFIT

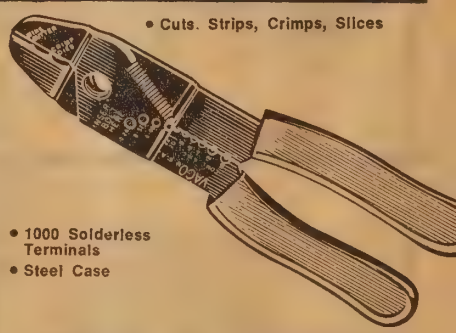
MODEL TDY-G3. Handy kit contains approximately 144 solderless terminals in most popular sizes, in addition to a Type TDY101 crimper/cutter which handles 18-22, 14-16 and 10-12 wires. Also strips insulation from No. 22 to 10 wire, cuts wire and bolts. Assortment and tool are supplied in convenient clear plastic case with slotted compartments. Identification and placement grid on inside case lid provides ease in locating and replacing parts. Overall case size: 11 x 6½ x 1¾". Shpg. wt., 2 lbs.
975R3670. 1-4 Ea. 19.70 5-Up Ea. 16.80



- 1000 Solderless Terminals
- Steel Case

NON-INSULATED TERMINAL KIT

MODEL TDY21-G2. Contains 1000 single-grip non-insulated type solderless terminals, plus a combination crimping-cutter installing tool all housed in a compact steel storage box that provides complete protection of tool and terminals—in the field or in the factory. Includes 50 each of twenty different types and sizes of solderless terminals to meet almost all applications and needs. Shpg. wt., 7 lbs.
975-4100. 1-4 Ea. 42.50 5-Up Ea. 36.25



- Cuts. Strips, Crimps, Slices

MODEL TDY-101 ALL-PURPOSE CRIMPING AND CUTTING TOOL

The only tool you need to make excellent electrical connections without solder. Cuts and strips wire; slices bolts; has crimping dies for insulated and non-insulated terminals. Wire cutter located at tip of tool for close work. Stripping notches for Nos. 10, 12, 14, 16, 18, 20, 22 wire. Slices bolts 10-32, 6-32, 5-40, 10-24, 8-32 and 4-40. Has plastic-insulated handles. Rugged, treated-steel construction. Wt. 1 lb.
975R3590. 1-9 ... Ea. 10.00 10-Up .... Ea. 7.98

Write, Wire or Phone Allied Electronics for Larger Quantity Prices

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CROSS REFERENCE

HOOK-UP WIRE

Stock No.	Mfr's No.	Page No.	ALPHA	BELDEN	COLUMBIA	DEARBORN
696-100N	3061	116	1550	8525	07600	302407
696-101N	3062	116	1551	8524	07602	302207
696-102N	3063	116	1553	8523	07604	302010
696-103N	3064	116	1555	8522	07606	301816
696-104N	3065	116	1557	8521	07608	.....
696-110N	3066	116	1559	8520	07610	.....
696-111N	3069	116	1561	8530	07603	302201
696-113N	3070	116	1563	8529	07605	302001
696-114N	3071	116	1565	8528	07607	301801
696-200N	3016	116	1858	8500	07513	171619
696-201N	3014	116	1857	8501	07511	171807
696-202N	3012	116	1856	8502	07509	172007
696-204N	3010	116	1855	8503	07507	172207
696-205N	3008	116	1854	8504	07503	172407
696-206N	3006	116	1853	8505	07501	172607
696-210N	3545	116	5852	83001	07014	12807
696-211N	3549	116	5854	83003	07019	12419
708-910N	3050	116	.....	.....	02015	402407
696-212N	.....	116	5855	.....	.....	.....
696-212N	3551	116	5855	83006	07030	12219
696-313N	3550	116	5855/7	83005	07026	12207
696-214N	3553	116	5856	83007	07034	12019
696-215N	3555	116	5857	83009	07038	11819
696-216N	3556	116	5858	83010	07042	11619
696-250N	3074	116	3071	8290	02100	412207
696-251N	3076	116	3073	8919	02102	412010
696-252N	3078	116	3075	8918	02103	411816
696-253N	3080	116	3077	8917	02104	411626
696-254N	3081	116	3079	8916	02105	411441
708-912N	3051	116	.....	.....	02016	402207
708-914N	3053	116	.....	.....	02040	402010

IRRADIATED PVC HOOK-UP

515-0100	18-4207-24	116	7054	83413	.....	252407
515-0120	18-4027-22	116	7055	83414	.....	252207
515-0140	18-4207-20	116	7056	83415	.....	252007
515-0160	18-4219-18	116	7057/19	.....	.....	251819
515-0180	18-4219-16	116	7058/19	.....	.....	251619
515-0200	18-4507-24	116	.....	.....	.....	252407F
515-0220	18-4507-22	116	.....	.....	.....	252207F
515-0240	18-4507-20	116	.....	.....	.....	252007F

SHIELDED & UNSHIELDED AUDIO CABLES

708-0903	1895	119	.....	8205	06351	832002
708-2079	1172	119	.....	8442	06348	832202
708-2082	1173	119	.....	8443	04062	832203
708-2085	1174	119	.....	8444	04063	832204
708-2087	1175	119	.....	8445	04064	832205
708-2088	1175	119	.....	8445	04064	832205
708-2090	1826	119	.....	8446	04081	610006
608-2096	1828	119	.....	8448	04083	610008
708-2097	1828	119	.....	8448	04083	610008
708-2121	1180	119	.....	8456	04071	832210
708-2128	1181	119	.....	8457	04067	832212
708-2221	1897	119	.....	8461	02830	831802
708-2247	1898/12	119	.....	8466	02412	831812
708-2284	1899	119	.....	.....	02405	831602**
708-2365	1898/4	119	.....	8489	02404	831804
708-2367	1898/4	119	.....	8489	02404	831084
708-3719	1067	119	.....	8621	02426	.....
708-3724	1072	119	.....	8622	02427**	.....
708-5048	1302	119	.....	.....	04010	852202
708-5064	1322	119	.....	8747	06017	862206
708-5065	1322	119	.....	8747	06017	862206
708-5066	1323	119	.....	8748	06019	862209
708-5067	1323	119	.....	8748	06019	862209
708-5085	1327	119	.....	8749	06026	862215
708-5302	660/2	119	.....	.....	.....	936602
708-5304	660/4	119	.....	.....	.....	936604
708-5313	663/2	119	.....	.....	.....	936632
708-5321	671/2	119	.....	.....	.....	936712
708-5397	1172	119	.....	8442	06348	832202
708-5398	1173	119	.....	8443	04062	832203

**Indicates slight variation in construction.

Stock No.	Mfr's No.	Page No.	ALPHA	BELDEN	COLUMBIA	DEARBORN
708-5399	1174	119	.....	8444	04063	832204
708-5401	1176	119	.....	.....	04066	832206
708-5405	1180	119	.....	8456	04071	832210
708-5406	1181	119	.....	8457	04067	832212
708-5407	1181/15	119	.....	8458	04073	832215
708-5408	1181/20	119	.....	9431	04075	832220
708-5409	1181/25	119	.....	8459	04076	832225
708-5477	1204	119	.....	.....	04412	.....
708-5782	1632	119	.....	.....	01326	.....
708-5783	1632	119	.....	.....	01326	.....
708-6018	1710	119	.....	8422	01322	.....
708-6040	1716	119	.....	8405	01645	682005
708-6250	1897	119	.....	8461	02830	831802
708-6256	1898/15	119	.....	8468	02423	.....
708-6321	2254	119	.....	8737	02882	692202
708-6322	2254/3	119	.....	.....	01335	692203
708-6326	2256	119	.....	8759	02888	692002
708-6349	2402	119	.....	.....	.....	972202**
708-6355	2461	119	.....	8451	02516	.....
708-6358	2465	119	.....	8722	01331	.....
708-7208	3221	119	.....	.....	.....	262202
708-8710	6010	119	.....	8777	06040	962203
708-8712	6012	119	.....	.....	06041	962206
708-8714	6014	119	.....	.....	06042	962209
708-8716	6016	119	.....	.....	06043	962211
708-8720	6020	119	.....	.....	06045	962219
758-0001	1201	119	1449	.....	.....	601801
758-0003	1202	119	1450	.....	.....	601802
758-0102	1302	119	1250	8412	.....	662002
758-1014	1304	119	1251	.....	.....	662003
758-012N	1321	119	1636	8899	.....	981865
758-0410	1644	119	1715**	8404	.....	682004
758-0500	2678	119	1737	8735	.....	742203
758-0502	2679	119	1736	.....	.....	742202
758-0506	2681	119	1741	.....	.....	742002
758-0510	2686	119	1746	.....	.....	741802
758-0512	2687	119	1747	.....	.....	741803
758-0516	2882	119	2254	8737	.....	692202
758-0517	2882	119	2254	8737	.....	692202
758-0519	2888	119	2256	8759	.....	692002
758-0520	2892	119	2258	8790	.....	691802
758-0710	6040	119	6010	8777	.....	962203
758-2058	1322	119	1710	8422	.....	.....
758-2099	4084	119	.....	8449	.....	.....
758-3643	2534	119	2421**	8760	.....	971802
758-3644	2534	119	2421**	8760	.....	971802
758-3691	2524	119	2411**	8762	.....	972002
758-9010	6035	119	6000	8767	.....	952003
758-9020	6036	119	6002	8768	.....	952206
758-9040	1352	119	.....	.....	.....	.....

BUS WIRE & LACING TWINE

758-0250	918	117	296	8019	03223	.....
768-0251	918	117	296	8019	03223	.....
768-0253	920	117	297	8020	03213	.....
768-0255	920	117	297	8020	03213	.....
768-0260	922	117	298	8021	03203	.....
768-0261	922	117	298	8021	03203	.....
768-0265	924	117	299	8022	03224	.....
768-0267	924	117	299	8022	03224	.....
768-0270	926	117	299/1	8023	03226	.....
768-0271	926	117	299/1	8023	03226	.....
768-9103	803215W	122	LC-115	.....	.....	.....
768-9105	804814W	122	LC-114	.....	.....	.....
768-9106	805032B	122	LC-132	.....	.....	.....
768-9107	805032W	122	LC-132	.....	.....	.....
768-9108	805036B	122	LC-136	.....	.....	.....
768-9109	805036W	122	LC-136	.....	.....	.....
768-9113	805058W	122	LC-158	.....	.....	.....
768-9116	807013B	122	LC-113	.....	.....	.....
768-9117	807013W	122	LC-113	.....	.....	.....

TEST PROD WIRE

758-013N	1321	117	1636	8899	.....	981865
758-0222	1482	117	1933/3	19230	.....	3163
758-6042	1318	117	1638	8898	.....	.....
758-6043	1318	117	1638	8898	.....	.....

Wire Cross-Reference (Contd.)

Stock No.	Mfr's Type	Page No.	ALPHA	BELDEN	COLUMBIA	DEARBORN
ZIP CORD SPEAKER WIRE						
758-2213	C1418	117	1977	19122	.....	1182T
758-2214	C1418	117	1977	19122	.....	1182T
758-3772	1360	117	1949	8649	.....	1202T
758-5323	1356	117	1944	8782	.....	1242T
768-0361	1242T	117	424	8781	1356	.....
768-0367	1242T	117	424	8781	1356	.....
STATIONARY SERVICE CORD						
758-0219	1479	117	1932/3	19229	.....	3183
758-0222	1482	117	1933/3	19230	.....	3163
758-3215	1425	117	1952	19127	.....	1182

FLAT CABLE and ASSEMBLIES

Stock No.	Mfr's Type	Page No.	SPECTRA STRIP	3M	ANSLEY
943-1000	3570	121	SS-1030-7B	.....	.....
943-1001	3560	121	SS-1028-7B	.....	.....
943-1002	3550	121	SS-1026-7B	.....	.....
943-1003	3540/7	121	SS-1024-7B	.....	.....
943-1004	3530/7	121	SS-1022-7B	.....	.....
943-1005	3540	121	SS-1024-19B	.....	.....
943-1006	3530	121	SS-1022-19B	.....	.....
943-1009	3551	121	SS-1526-7B	.....	.....
943-1010	3541/7	121	SS-1524-7B	.....	.....
943-1011	3531/7	121	SS-1522-7B	.....	.....
943-1012	3541	121	SS-1524-19B	.....	.....
943-1013	3531	121	SS-1522-19B	.....	.....
943-1015	3562	121	SS-2028-7B	.....	.....
943-1016	3552	121	SS-2026-7B	.....	.....
943-1017	3542/7	121	SS-2024-7B	.....	.....
943-1018	3532/7	121	SS-2022-7B	.....	.....
943-1019	3542	121	SS-2024-19B	.....	.....
943-1020	3532	121	SS-2022-19B	.....	.....
943-1023	3553	121	SS-3026-7B	.....	.....
943-1024	3543/7	121	SS-3024-7B	.....	.....
943-1025	3533/7	121	SS-3022-7B	.....	.....
943-1050	3581/14	121	455-044-14	3302/14	.....
943-1051	3581/16	121	455-044-16	3302/16	.....
943-1052	3581/20	121	455-044-20	3302/18	.....
943-1053	3581/26	121	455-044-26	3302/26	.....
943-1054	3581/34	121	455-044-34	3302/34	.....
943-1055	3581/40	121	455-044-40	3302/40	.....
943-1056	3581/50	121	455-044-50	3302/50	.....
943-1400	3582/14	121	455-248-14	.....	.....
943-1410	3582/16	121	455-348-16	.....	.....
943-1420	3582/20	121	455-348-20	.....	.....
943-1430	3582/26	121	455-348-26	.....	.....
943-1440	3582/34	121	455-348-34	.....	.....
943-1450	3582/40	121	455-348-40	.....	.....
943-1460	3582/50	121	455-348-50	.....	.....
708-9700	3580/14	121	455-240-14	3365/14	171-14
708-9710	3580/16	121	455-240-16	3365/16	171-16
708-9720	3580/20	121	455-240-20	3365/20	171-20
708-9730	3580/26	121	455-240-26	3365/26	171-26
708-9740	3580/34	121	455-240-34	3365/34	171-34
708-9750	3580/40	121	455-240-40	3365/40	171-40
708-9760	3580/50	121	455-240-50	3365/50	171-50

FLAT CABLE AND ASSEMBLIES (Cont)

Stock No.	Mfr's Type	Page No.	SPECTRA STRIP	3M	ANSLEY
943-1150	132-012	121	5132-012	.....	.....
943-1151	132-024	121	5132-024	.....	.....
943-1153	132-048	121	5132-048	.....	.....
943-1154	142-012	121	5142-012	.....	.....
943-1155	142-024	121	5142-024	.....	.....
943-1156	142-036	121	5142-036	.....	.....
943-1157	142-048	121	5142-048	.....	.....
943-1158	131-012	121	5131-012	.....	.....
943-1159	131-024	121	5131-024	.....	.....
943-1160	131-036	121	5131-036	.....	.....
943-1161	131-048	121	5131-048	.....	.....
943-1162	141-012	121	5141-012	.....	.....
943-1163	141-024	121	5141-024	.....	.....
943-1164	141-036	121	5141-036	.....	.....
943-1165	141-048	121	5141-048	.....	.....

COMPUTER CABLE

Stock No.	Mfr's Type	Page No.	DEARBORN	NATIONAL	MANHATTEN
708-6630	5330	118	592405	NXP5245J	M4550
708-6635	5332	118	592412	NXP122455	M4552
708-6640	5340	118	592205	NXP522SJ	M4560
708-6645	5341	118	592207	NXP722SJ	M4561
708-6650	5344	118	592219	NXP1922SJ	M4564
708-6605	5242	118	582212	NXP1222J	.....
708-6610	5243	118	582215	NXP1522J	.....
708-6615	5244	118	582219	NXP1922J	.....
708-6620	5245	118	582227	NXP2722J	.....
708-6550	5301	118	572407	NX724SJ	.....
708-6555	5302	118	572412	NX1224SJ	.....
708-6560	5304	118	572419	NX1924SJ	.....
708-6565	5305	118	572427	NX2724SJ	.....
708-6570	5307	118	572448	NX4824SJ	.....
708-6575	5311	118	572207	NX722SJ	.....
708-6580	5312	118	572212	NX1222SJ	.....
708-6585	5314	118	572219	NX1922SJ	.....
708-6590	5315	118	572227	NX2722SJ	.....
708-6995	5316	118	572237	NX3722SJ	.....
708-6600	5324	118	572019	NX1920SJ	.....
708-6500	5202	118	562412	NX1224J	.....
708-6505	5203	118	562415	NX1524J	.....
708-6510	5204	118	562419	NX1924J	.....
708-6515	5205	118	562427	NX2724J	.....
708-6520	5210	118	562205	NX522J	.....
708-6525	5213	118	562215	NX1522J	.....
708-6530	5215	118	562227	NX2722J	.....
708-6535	5216	118	562237	NX3722J	.....
708-6540	5221	118	562007	NX720J	.....
708-6545	5225	118	562027	NX2720J	.....

Call Allied for Price and Delivery of Items Not Located in This Guide

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LOW COST WIRE AND CABLE FOR HOME ELECTRONICS



2-CONDUCTOR SPEAKER WIRE

Features low loss. For use with solid-state amplifiers. Use to create greater distances between speakers for accurate stereo channel separation, or wire extra speakers throughout your home. Stranded.

Mfr's Type	Description	Gauge	100 Ft. Stock No.	100 Ft. Each	500 Ft. Stock No.	500 Ft. Each
278-008	Heavy-Duty Polarized	18	661-0100	7.75	661-0105	23.76
278-1384	Plastic	16	661-0110	10.07	661-0115	31.55
278-1388	Polarized, Clear	20	661-0120	4.03	661-0125	13.34



ZIP CORD

This multi-purpose, stranded wire is excellent for extension cords, speakers, shortwave antennas and many more. Truly a versatile, and great value.

Mfr's Type	Description	Gauge	100 Ft. Stock No.	100 Ft. Each	500 Ft. Stock No.	500 Ft. Each
278-1301	Miniature Plastic	24	661-0130	2.50	661-0135	12.35



MICROPHONE CABLE

Features low-loss. This shielded cable is ideal for use as patch cords, interconnections and general-purpose extensions.

Mfr's Type	Description	Gauge	100 Ft. Stock No.	100 Ft. Each	500 Ft. Stock No.	500 Ft. Each
278-1277	Single Conductor With Shield	24	661-0140	7.73	661-0145	24.68









TV-FM TWIN LEAD

Designed to improve any TV or FM set reception. 22-gauge, 7-strand lead-in. Recommended for indoor hook-up.

Mfr's Type	100 Ft. Stock No.	100 Ft. Each	500 Ft. Stock No.	500 Ft. Each
15-1153	661-0150	3.68	661-0155	12.17

VHF/UHF 300-OHM TWIN CABLE

A "must" for improved color TV and UHF reception. Ideal in fringe or suburban areas. 20-gauge copper, white-foam web, black polyethylene jacket.

Mfr's Type	100 Ft. Stock No.	100 Ft. Each	500 Ft. Stock No.	500 Ft. Each
15-1174	661-0160	6.00	661-0165	19.36

ANTENNA ROTOR CABLE

Stock No.	Mfr's Type	No. of Conductors	Per 100' Coil
661-0170	15-1151	4	7.60
661-0180	15-1201	5	8.93

ANTENNA STEEL GUY WIRE

Stock No.	Mfr's Type	Description	Per 100' Coil
661-0190	15-031	100' Galvanized Steel Wire	3.00

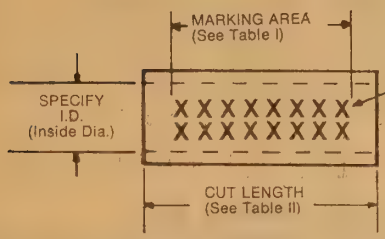
Heat Shrink Wire Markers and Wire Cable Tools

NEW!









HEAT SHRINK WIRE MARKERS

- **For All Electronic and Electrical Equipment**
- **Shrinks 50% (2:1 Ratio) With Only 5% Longitudinal Shrinkage**
- **UL Listed**

These hot stamped heat shrink wire markers, made from irradiated polyolefin shrinkable tubing, are ideally suited for coding or identifying circuits or terminals. Printing is available on 1, 2, or 3 lines with varying type sizes from 1/16" high to ¼" high letters and a wide assortment of type face styles. The printing can be on one side, two sides and 180° opposed. Supplied in expanded form and easily slips over object. Tubing returns to its predetermined size (approximately one-half smaller) when 275°F (135°C) is applied. Will not cold-flow or melt but retains form stability throughout its temperature range. No radioactivity exists in or on the material and it will not emit radiation. Controlled shrinkage to the correct predetermined size takes place within seven seconds at 225 F to 255°F. Shrinkage will begin at 235°F, but at a slower rate. Prolonged exposure will not affect the physical or electrical properties. Flammability: ST-221 Clear is a high temperature material, but it is flammable. However, when tubing is shrunk over nonflammable or flame-resistant components the entire assembly will not support combustion. Operating Temperature: −55°C to 135°C. UL Listed. Conforms to MIL-I-23053B/5 Class 1 Colors, AMS-3636B Colors, AMS-3637B Clear, MIL-I-2305B/5 Class 2 Clear.

TABLE I NUMBER OF CHARACTERS

CUT LENGTH (inches)	NUMBER OF CHARACTERS PER LINE	CUT LENGTH (inches)	NUMBER OF CHARACTERS PER LINE
¼	2	1½	11
⅜	3	1⅜	12
½	4	1½	13
⅝	5	1⅝	15
¾	6	1¾	16
⅞	8	1⅞	17
1	9	2	18

SELECTION PROCEDURE

STEP 1. Select the number of characters per line you require.
STEP 2. Consult Table I above for the CUT LENGTH needed to imprint that number of letters.
STEP 3. Determine the I.D. (Inside Diameter) of the tubing you need.
STEP 4. Consult Table II for that I.D. and the CUT LENGTH you have selected from Table I. Your cost is determined by the quantity of markers you need. Under 100 pieces is a LOT price, others are per 100. All prices are for SINGLE LINE only.
STEP 5. Use the multipliers above Table II for more than 1 line of printing.

TABLE II — PRICE CHART

Must State Color, Character For Each Line, Length, I.D. Colors: Black, White, Red, Yellow, Blue, Clear.
Prices Shown For Single Line Print Order. For 2 Lines Of Printing Multiply By 1.5.
For 3 Lines Of Printing Multiply By 2

CUT LENGTH INCHES	CHARACTERS PER LINE*	⅛ I.D.	3/16 I.D.	¼ I.D.	PRICE PER 100 PCS.	⅜ I.D.	½ I.D.	¾ I.D.	PRICE PER 100 PCS.
¼	2	51200100	51200200	51200300	15.60	51200400	51200500	51200600	16.12
⅜	3	51200105	51200205	51200305	15.96	51200405	51200505	51200605	16.73
½	4	51200110	51200210	51200310	16.33	51200410	51200510	51200610	17.35
⅝	5	51200115	51200215	51200P315	16.70	51200415	51200515	51200615	17.97
¾	6	51200120	51200220	51200320	17.07	51200420	51200520	51200620	18.59
⅞	8	51200125	51200225	51200325	17.45	51200425	51200525	51200625	19.22
1	9	51200130	51200230	51200330	17.82	51200430	51200530	51200630	19.84
1¼	11	51200135	51200235	51200335	18.55	51200435	51200535	51200635	21.08
1⅜	12	51200140	51200240	51200340	18.92	51200440	51200540	51200640	21.69
1½	13	51200145	51200245	51200345	19.29	51200445	51200545	51200645	22.31
1⅝	15	51200150	51200250	51200350	19.66	51200450	51200550	51200650	22.95
1¾	16	51200155	51200255	51200355	20.02	51200455	51200555	51200655	23.56
1⅞	17	51200160	51200260	51200360	20.39	51200460	51200560	51200660	23.85
2	18	51200165	51200265	51200365	20.76	51200465	51200565	51200665	24.47

*Maximum

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SPEED-WRAP TOOLS



Ⓐ **TYPE G100/R-3278 SPEED-WRAP TOOL.** Designed with a chuck nose piece to make full use of the full line of bits and sleeves made for power tools. Makes fast, perfect, solderless wrapped-wire electrical connections in less than 1/10 second. Uses interchangeable Coiltite bits and sleeves (listed below) that accommodate the proper size wire and terminals for any application.
825-2001. 1-3 ..... Each 58.87 4-Up ..... Each 47.00

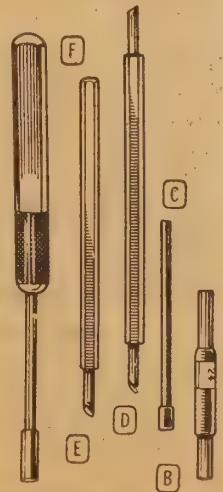
ⒷⒸ **COILTITE BITS AND SLEEVES.** For use with Speed-Wrap tool above.

Ⓑ **COILTITE SLEEVE**

Wire Gauge	Stock No.	Mfr's Type	EACH 1-3	EACH 4-Up
#22-24	825-2015	P2224	9.15	7.32
#24-26	825-2016	P2426	9.15	7.32
#30-32	825-2018	P3032	14.70	12.58

Ⓒ **COILTITE BIT**

#26	825-2012	KB26	16.22	13.80
#24	825-2011	KB24	16.22	13.80
#22	825-2010	KB22	16.22	13.80
#22, 24	825-2013	KB224	16.22	13.80
#30-32	825-2025	SB30MSH-B	22.46	19.23

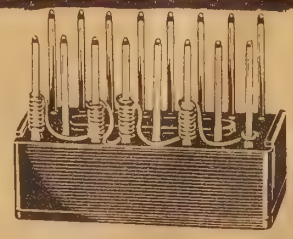


Ⓓ **TYPE UW2 HAND UNWRAPPING TOOL.** For easy removal of solderless wrapped connections. For left or right hand operation. For #20 to #26 wire.
825R-2031. 1-3 ..... Each 13.60 4-Up ..... Each 10.88

Ⓔ **HAND UNWRAPPING TOOL.** Type UW1 as above, reg. handle. For #20 to #26 wire. Type UW093R is similar to UW1. For #24 to #32 wire.
825-2030. Type UW1. **1-3 ..... Ea. 9.18 4-Up .... Ea. 7.34**
825-2035. Type UW093R. **1-3 ... Ea. 9.18 4-Up .... Ea. 7.34**

Ⓕ **HAND WRAPPING TOOLS.** For occasional connections. No bits, sleeves or special skills needed.
TYPE HW224. For #22 and #24 wire.
825R2006. 1-3 ..... Each 19.10 4-Up ..... Each 16.24
TYPE HW26. For #26 wire.
825-2005. 1-3 ..... Each 18.17 4-Up ..... Each 15.45
TYPE HW30. For #30 wire.
825-2008. 1-3 ..... Each 24.73 4-Up ..... Each 21.18

A REVOLUTIONARY WIRING METHOD FOR WRAP POSTS

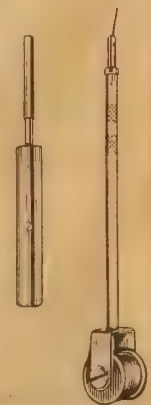


P180 SLIT-N-WRAP TOOL

- **No Pre-Cutting or Pre-Stripping Needed**
- **Spool-Fed Wire**
- **"Daisy-Chain" Runs**

Type P180 Slit-N-Wrap Tool is a speedy manual wrapping device which supplies insulated wire from a spool, directly to wrap-posts — without external pre-stripping or pre-cutting. Also works in "daisy-chain" fashion, so more than one level is rarely required. Thus, wrap-posts can be very short, requiring less space between stacked wiring cards. **HOW IT WORKS:** Thinly insulated (but tough) wire is pulled past a sharp edge adjacent to wrapping point, where a narrow slit is cut longitudinally in the wire. As the wire is pulled by the wrap-post, it rolls along the path from sharp corner to post. This opens the slit farther and exposes the raw copper to the post corner, indenting both it and the post to produce gas-tight joints at each position. What little insulation is displaced will lie in the space between the coils, and need not be removed.
The Slit-N-Wrap system uses #28 nylon polyurethane insulated wire, wrapping 6-8 turns (or more) for reliable, low-resistance connections. Can be used with any suitably perforated circuit board, but works best with "P" pattern Micro-Vectorbord®, either unclad or printed.





P180 Slit-N-Wrap Tool. Operates by twisting in the fingers. Comes with two spools of #28 wire. Includes P183 chisel knife and forming tool for cutting off and holding leads loosely. Wt. 5¼ oz.
977-5070. 1-4 . . Each 24.50 5-9 . . Each 22.05 10-Up . . Each 19.60

P160-1A Unwrap Tool. Shpg. wt. ¾ oz.
977-5075. 1-4 ..... Each 11.80 5-Up ..... Each 9.98

#28 Gauge Insulated Wire. Three 100' spools in package. For use with P180 tool. Choice of colors. Shpg. wt. 2¾ oz.

Stock No.	Mfr's Type	Color	Per Pkg. of 3 Spools 1-9	10-24	25-49	50-Up
977-5080	W-28-2-A	Green	4.12	3.00	2.73	2.30
977-5081	W-28-2-B	Red	4.12	3.00	2.73	2.30
977-5082	W-28-2-C	Clear	4.12	3.00	2.73	2.30
977-5083	W-28-2-D	Blue	4.12	3.00	2.73	2.30

HOOKUP WIRE

Assorted Hook-Up Wire

MIL-W-76B TYPE MW — UNCOVERED (PVC)



POLYVINYL CHLORIDE INSULATED. Solid or extra stranded tinned copper, color coded medium wall polyvinylchloride insulation. (Nominal wall thickness .016"). **Characteristics:** Temp. rating: −40° to +80°C. Voltage rating: 1000 volts. Resistant to acids, alkalis, oil, flame, moisture, and fungus.

STRANDED

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
696-100N	3061	1000	24	7x32	.059	1.50	2.8	1.27	1-3	10.10
696-101N	3062	1000	22	7x30	.064	1.63	3.6	1.64	1-4, 6	11.77
696-102N	3063	1000	20	10x30	.073	1.85	4.8	2.18	1-3	14.20
696-103N	3064	1000	18	16x30	.084	2.13	7.3	3.32	1-3	18.79
696-104N	3065	1000	16	26x30	.095	2.41	11.2	5.09	1-3	26.14
696-105N	3061	100	24	7x32	.059	1.50	.4	.18	1-4	2.20
696-106N	3062	100	22	7x30	.064	1.63	.5	.23	1-6, 8	2.43
696-107N	3063	100	20	10x30	.073	1.85	.6	.27	1-4	2.80
696-108N	3064	100	18	16x30	.084	2.13	.8	.36	1-4, 6	3.48
696-109N	3065	100	16	26x30	.095	2.41	1.2	.55	1-3	4.60
696-110N	3066	100	14	41x30	.110	2.79	1.7	.77	1-3	7.53
SOLID										
696-111N	3069	1000	22	.....	.060	1.52	3.3	1.50	1-3	12.75
696-112N	3069	100	22	.....	.060	1.52	.4	.18	1-4	1.95
696-113N	3070	100	20	.....	.066	1.68	.6	.27	1-3	2.53
696-114N	3071	100	18	.....	.074	1.88	.8	.36	1-3	3.05

MIL-W-16878 TYPE B VINYL INSULATED—600 VOLTS—+105°C



Each strand double copper tinned. Color coded nom. wall thickness .010" polyvinylchloride insulation. Temperature rating: —55°C to +105°C. Voltage rating: 600 volts. Resistant to acids, alkalis, oils, flame, moisture, solvents, and fungus.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
696-200N	3016	100	16	19x32	.077	1.96	1.00	.45	1-4	4.78
696-201N	3014	100	18	7x26	.068	1.73	.75	.34	1-7	3.95
696-202N	3012	100	20	7x28	.058	1.47	.50	.23	1-4	3.35
696-204N	3010	100	22	7x30	.050	1.27	.50	.23	1-9	2.68
696-205N	3008	100	24	7x32	.043	1.09	.25	.11	1-4	2.43
708-277N	1853	100	26	7x34	.038	.97	.25	.11	1-4	4.38
708-346N	1852	100	28	7x36	.034	.86	.25	.11	1-3	4.38
708-348N	1851	100	30	7x38	.032	.81	.25	.11	1-2	4.50

MIL-W-16878D TEFLON WIRE—600 VOLTS

Type E, extruded. Single conductor, stranded silver-plated copper. Temperature rating: —65°C to +200°C. Voltage rating: 600 volts .010" nominal thickness.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
696-210N	3545	100	28	7x36	.036	.91	.2	.09	1-3, 5	4.12
696-211N	3549	100	24	19x36	.045	1.14	.3	.14	1-5	6.80
696-212N	3551	100	22	19x34	.051	1.30	.4	.18	1-3, 5	7.63
696-213N	3550	100	22	7x30	.050	1.27	.6	.27	1-3	6.05
696-214N	3553	100	20	19x32	.059	1.50	.6	.27	1-3	8.88
696-215N	3555	100	18	19x30	.070	1.78	.9	.41	1-5	11.18
696-216N	3556	100	16	19x29	.077	1.96	1.2	.55	1-3, 6	14.23



SERIES 18 IRRADIATED PVC HOOK-UP WIRE

- **Military Types (MIL-W-16878D) are Rugged and are Flame and Solder Iron Resistant**
- **Available in 100 Feet Per Spool**

Military types *(MIL-W-16878D) will not melt when accidentally exposed to a hot soldering device, nor will insulation shrink back during the solder termination of the tinned copper conductor. Resists insulation cut-through and crushing during the various wire process operations and during the life of the wiring system. Insulation: extruded radiation cross-linked PVC (.010"/.25mm) nominal wall. Temperature range: −55°C to +105°C. Voltage rating: 600 volts rms. ‡Style 1429 business machine wire is insulated with irradiation cross-linked PVC which provides excellent resistance to cut-through and accidental exposure to a hot solder iron. Conductor coatings: T.C. = tinned copper, O.T.C. = overcoated tinned copper (see column headed Stranding in table below). Voltage rating 150 volts rms, 300 volts peak. See Table A for completing stock number.

Stock No.	Mfr's Type	AWG	Ft per Spool	Stranding	Nom. O.D. In	Nom. O.D. mm	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
515-010N	18-4207-24*	24	100	7x32	.044	1.12	.4	.18	1-3	4.60
515-012N	18-4207-22*	22	100	7x30	.050	1.27	.5	.23	1-3	4.93
515-014N	18-4207-20*	20	100	7x28	.058	1.47	.6	.27	1-3	5.30
515-016N	18-4219-18*	18	100	19x30	.068	1.73	.8	.36	1-3	7.12
515-018N	18-4219-16*	16	100	19x29	.078	1.98	1.2	.55	1-3	7.68
515-020N	18-4507-24‡	24	100	7x30-TC	.043	1.09	.4	.18	1-3	5.12
515-022N	18-4507-22‡	22	100	7x30-OTC	.050	1.27	.5	.23	1-3	5.55
515-024N	18-4507-20‡	20	100	7x28-OTC	.060	1.52	.6	.27	1-3	6.65

UL STYLE 1015—CSA HOOK-UP WIRE



Stranded tinned copper, color coded polyvinylchloride insulation. 1/32" nominal wall thickness. Temperature rating: (CSA Style TEW-105), −55°C to +105°C, 600 volts.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
696-250N	3074	100	22	7x30	.095	2.41	.60	.27	1-3	2.90
696-251N	3076	100	20	10x30	.102	2.59	.75	.34	1-8	3.40
696-252N	3078	100	18	16x30	.112	2.84	.98	.45	1-6	4.10
696-253N	3080	100	16	26x30	.125	3.18	1.40	.64	1-3	5.65
696-254N	3081	100	14	41x30	.142	3.61	2.01	.91	1-3	7.60

TEFZEL® UL STYLE 1516 & 1523 COMPUTER WIRE



Solid silver-plate OFHC copper conductor. Newly developed Tefzel® insulation provides high temperature; thin-wall suitable for wire wrap insulation. Temperature rating: −100°C to +150°C continuous. *U.L. 1523 and U.L. 1516.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
708-900N	1805*†	100	30	.....	.019	.48	.10	.05	1-6 8	13.28
708-902N	1806*	100	28	.....	.023	.58	.20	.09	1	14.15
708-904N	1807*	100	26	.....	.026	.66	.20	.09	1-6, 9	14.03
708-906N	1808*	100	24	.....	.029	.74	.30	.14	1-3, 6	15.60

UL STYLE 1007—CSA HOOK-UP WIRE



Stranded tinned copper, color coded polyvinylchloride insulation. 1/64" nominal wall thickness. Temperature rating: (CSA Style TR-64), —10°C to +80°C, 300 volts.

Stock No.	Mfrs. Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
708-910N	3050	100	24	7x32	.057	1.45	.28	.13	1-8	5.63
708-912N	3051	100	22	7x30	.065	1.65	.38	.17	1-9	7.00
708-914N	3053	100	20	10x30	.071	1.80	.50	.23	1-3, 6	8.38
708-916N	3055	100	18	16x30	.080	2.03	.72	.33	2, 3	11.75

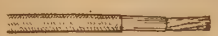
KYNAR HOOK-UP WIRE



Vinylidene fluoride insulation. Conductor solid OFCH. Temperature rating: to 125°C; U.L. to 105°C.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Color	EACH
768-888N	773001	1000	30	1	.0195	.48	1.5	.680	1, 3, 6	45.78

MIL-W-5086A UNSHIELDED AIRCRAFT WIRE



MIL-W-5086A TYPE 1—single conductor stranded tinned copper, white PVC insulation, clear nylon with polymide jacket overall. Temp. rating: —55°C to +105°C. 600 V.

Stock No.	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nominal O.D. In.	Nominal O.D. MM.	Wt. per Spool lbs.	Wt. per Spool kg.	Mil Type	EACH
708-5578	1384	100	16	19x29	.098	2.49	1.3	.59	AN16-1	12.44

TYPE "S" BUS HOOKUP WIRE

To MIL-W-3861, QQ-W-343. Solid copper wire: tinned. For noninsulated hookups.

Stock No.	Mfr's Type	Ft. per Spool	Conductor No.	Conductor Size	Nom. O.D. In.	Nom. O.D. mm	Weight Lbs.	Weight Kg	EACH
768-0270	926	100	1	26	.016	.406	1/4	.113	2.50
768-0271	926	1000	1	26	.016	.406	1	.454	11.75
768-0265	924	100	1	24	.020	.508	1/4	.113	3.25
768-0267	924	1000	1	24	.020	.508	1 1/2	.709	13.00
768-0260	922	100	1	22	.025	.635	1/4	.113	2.60
768-0261	922	1000	1	22	.025	.635	2 1/4	1.02	10.69
768-0253	920	100	1	20	.032	.812	1/4	.113	3.75
768-0255	920	1000	1	20	.032	.812	3 1/2	1.58	14.53
768-0250	918	100	1	18	.040	1.01	3/5	.272	4.38
768-0251	918	1000	1	18	.040	1.01	5	2.27	21.04

TELEPHONE STATION CABLE AND UNSHIELDED INTERCOM CABLE

Telephone Station Cable. Solid, annealed bare copper conductor, color-coded polyethylene insulation, conductors cabled with PVC jacket overall. Jacket designed to resist weathering and abrasion. **Unshielded Intercom Cable.** Twisted into pairs, PVC jacketed, color-coded. For outdoor installations. Temperature: −20°C to +80°C. Rated at 150 volts.

Stock No.	Mfr's Type	Ft. Per Spool	Conductors No.	Conductors Size	Conductors Strand	Nominal O.D. In.	Nominal O.D. MM	Weight lbs.	Weight Kg.	EACH
708-5477	1204	100	4	22	Solid	.185	4.70	2.1	.95	13.12
708-5064	1322	100	12	22	7x30	.320	8.13	6.5	2.95	24.22
708-5066	1323	100	18	22	7x30	.370	9.40	9.0	4.09	36.16
708-5085	1327	100	30	22	7x30	.450	11.43	14.6	6.64	60.29

TABLE A—ORDERING INFORMATION

Insert in place of N in Stock No., number of color desired. Individual listings show colors available.

White 1	Green 4	Brown 7	Violet 0
Black 2	Yellow 5	Orange 8	
Red 3	Blue 6	Gray 9	

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Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Coaxial and Specialized Cables, Cords and Wires

TEST PROD WIRE



Extra flexible stranded tinned soft annealed copper conductor, separator, color-coded rubber insulation, −20° to +60°C. For multimeters, oscillators, etc. †5′ coiled cord. **Working Voltage (AC RMS):** Type 1632 — 1,500V. Type C1321 — 5,000V. Type C1318 — 10,000V. Type 650 — 5,000V. **Breakdown Voltage (RMS):** Type 1632 — 6,000V. Type C1321 — 20,000V. Type C1318 — 29,000V. Type 650 — 20,000V. **Ordering Information:** *Insert number of color desired in place of N in Stock No.: Black — 2. Red — 3,

Stock No.*	Mfr's Type	Ft. per Spool	Conductor Size	Conductor Strand	Nom. O.D. Inch	Lbs. per Spool	Color	EACH
708-578N	1632	100	20	41x36	.125	1.2	2, 3	12.28
758-012N	C1321	250	18	65x36	.140	3.0	2, 3	14.91
758-013N	C1321	500	18	65x36	.140	8.0	2, 3	29.75
758-604N	C1318	250	18	65x36	.230	4.0	2, 3	22.61
708-611N	650†	...	20	41x36	.165	4.0	2, 3	4.75

HIGH VOLTAGE LEADS



Tinned copper, conductive polyethylene insulation, vinyl jacket. Temp. −20° to +60°C. **Breakdown Voltage:** 40,000 VDC.

Stock No.	Mfr's Type	Ft./ Spool	Conductor Size	Conductor Strand	Nom. O.D.	Wt./ Spool	Jacket Color	EACH
758-6005	C3396	100	18	16x30	.190″	2.5	Red	11.34

SHIELDED MICROPHONE CABLE



Stranded, tinned copper cond. Color-coded polyethylene insul. Braided shield, gray PVC jacket. **1703:** .030″ jacket. **1710:** .025″ jacket.

708-6003	1703	100	1	24	10x34	.145″	14.63
708-6018	1710	100	2	22	16x34	.230″	19.29

SHIELDING AND BONDING CABLES



Tinned copper tubular braid for max. shielding against electrostatic interference for wires, cables and other components. Also protects against abrasion and stresses.

Stock No.	Mfr's Type	Ft./ Spool	Stranding	Amps	Rounded I.D.	EACH
758-4023	C2980	100	96x34	27	9/64″	11.49
758-4025	C2983	100	192x34	42	9/32″	17.85

RETRACTABLE MICROPHONE CORDS



C0865: Unshielded. **C0845:** 3-cond. shielded. **C0850:** 2 individually shielded cond., 2 unshielded. All neoprene jackets.

Stock No.	Mfr's Type	Extends From In.	Extends To Ft.	Conductor No.	Conductor Size	Conductor Strand	Nom. O.D. Inch	EACH
758-2390	C0865	12	5	5	23	21x36	.265	18.53
758-2391	C0850	12	6	4	23	21x36	.300	14.13
758-2397	C0845	12	6	3	23	21x36	.250	11.91

HIGH-GRADE MAGNET WIRE

Type PE — Plain Enamel Class A (105°). Excellent properties. Round bare copper single conductor covered with a continuous film of oleoresinous enamel.

Stock No.	Mfr's Type	Ft. per Lb.	Conductor No.	Conductor Size	Nom. O.D. Inch	Wt. Lbs.	EACH
768-0183	18PE	203	1	18	.0416	10	52.00
768-0185	20PE	320	1	20	.0332	10	52.00
768-0189	22PE	508	1	22	.0266	10	52.00
768-0193	24PE	806	1	24	.0212	10	54.50
768-0219	32PE	5086	1	32	.0087	10	66.50

SPEAKER WIRE — LAMP CORD (ZIP CORD)



Extra-heavy duty. Bare copper conductors, PVC insulation, one cond. ridged for polarity I.D. Rib-type const. UL Listed SPT-1. Temp.: −20° to −60°C. 300 WV AC. Clear except *brown (*one conductor tinned).

Stock No.	Mfr's Type	Ft./ Spool	Conductor No.	Conductor Size	Conductor Strand	Nom. O.D.	EACH
758-2213	C1418	100	2	18	41x34	.031″	13.30
758R2214	C1418	250	2	18	41x34	.031″	15.40
758-3772	C1360	100	2	20	7x28*	.073x.146″	5.28
758-5323	C1356	500	2	24	7x32*	.058x.115″	14.38
768-0361	1242T	100	2	24	7x32	.060x.120″	5.63
768-0367	1242T	500	2	24	7x32	.060x.120″	15.45

STATIONARY SERVICE CORD



Copper tinned, soft annealed. Synthetic rubber insulation. −37° to +140°C. Black neoprene jacket. For use in areas where exposed to oil, ozone, grease, chemicals, solvent. Color-coded conductors: 2 cond. — black, white. 3 cond. — black, white, green. 4 cond. — black, white, green, red.

Stock No.	Mfr's Type	Ft./ Spool	Conductor No.	Conductor Size	Conductor Strand	Type	Nom. O.D.	Amps	EACH
758-3215	01425	C1425	2	18	41x34	SJ	.298″	7	23.48
758-0222	01482	C1482	3	16	26x30	SJO	.360″	10	50.77
758-0219	01479	C1479	3	18	16x30	SJO	.330″	7	36.89

Type SJ (Light duty): tools, power extensions, motor and welding leads, portable machinery, battery chargers, sound equipment, washing machines, refrigerators, etc. 300 V. Rubber jacket.

Type SJO: Same as above but Neoprene jacket.

Type SVO: Light appliances such as fans, mixers and office equipment. 300 volts. Neoprene jacket.

Type SO: Heavy-duty equipment: generators, heaters, tools, air conditioners. 600 volts. Neoprene jacket.

RETRACTILE SERVICE CORD (NEOPRENE)

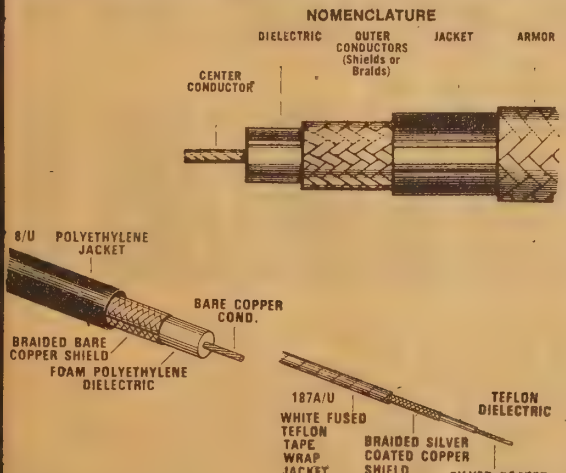


Each conductor stranded copper; rubber insulated, neoprene jacket. −20° to −60 C. Use on most electric tools and appliances. Rated 300 volts, except *600 volts.

Stock No.	Mfr's Type	L. Ft.	Conductor No.	Conductor Size	Conductor Strand	Type	Nom. O.D. Inch	Nom. Cord O.D.	Amps	EACH
708-5302	680/2	2	2	18	41x34	SVO	7/8	.260″	7	11.71
708-5304	680/4	4	2	18	41x34	SVO	7/8	.260″	7	21.13
708-5313	663/2	2	4	18	41x34	SJO	17/16	.385″	5 6	19.26
708-5321	671/2*	2	4	16	65x34	SO	17/8	.500″	8	33.30

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NOMENCLATURE



MIL-C-17D POLYETHYLENE DIELECTRIC RG COAXIAL CABLE

An assortment of the most popular types. Typical applications include RF transmission line, antenna lead-in and test lead. Low capacitance; low attenuation. Low-loss polyethylene dielectric. Meet MIL-C-17D specs.

RG No.	Cond. AWG	O.D. In.	Imp. Ohms	Cap. pF	Max. Volts	Cable Jacket	100-Ft. Spools Stock No.	100-Ft. Spools EACH	500-Ft. Spools Stock No.	500-Ft. Spools EACH	1000-Ft. Spools Stock No.	1000-Ft. Spools EACH
8/U	13 (7x21)	.405	52	29 5	5000	I	743-1070	28.89	.....		.....	
8A/U	13 (7x21)	.405	52	29.5	5000	IIA			NOW DESIGNATED AS 213/U			
9/U	13 (7x21)	.420	51	30.0	5000	II	743-1100	82.08	.....		.....	
11/U	18 (7x26)	.405	75	20.5	5000	I	743-1150	25.80	.....		.....	
58/U	20 (Solid)	.195	53.5	28.5	1900	I	743-1670	10.60	743-1671	38.41	743-1672	76.82
58A/U	21 (19x33)	.195	52	28.5	1900	I	743R1680	12.10	743-1681	43.42	.....	
58C/U	21 (19x33)	.195	52	28.5	1900	IIA	743-1820	17.20	743-1821	55.11	.....	
59/U	22 (Solid)	.242	73	21 0	2300	I	743-1840	12.86	743-1841	44.25	743-1842	85.67
59A/U	.023CW	.242	75	20.5	2300	IIA			REPLACED BY 59B/U			
59B/U	.023CW	.242	75	21.5	2300	IIA	743-1860	14.46	743-1861	58.03	.....	
62A/U	22CW	.242	93	13.5	750	IA	743-1890	13.53	743-1891	53.44	743-1892	102.12
187A/U	7/.004SCW	.110	75	19.5	1200	VII	743-3160	43.17	.....		.....	
174/U	7/34CW	.100	50	30	1500	I	743-2900	12.25	743-2901	31.73	743-2902	59.54
213/U	13 (7x12)	.405	50	29.5	3000	IIA	743-3280	36.99	.....		..	

LOW-LOSS FOAM COAXIAL CABLE

Ideal for community TV antennas. Offers much lower loss than regular RG types. Low attenuation; low capacitance. Cellular polyethylene reduces signal attenuation as much as 35%. Type 59/U is ideal color TV lead-in. **Note: this series is not RG cable; do not include RG prefix in type number.** Bare except *bare copperweld.

Type No.	Conductor AWG	O.D. In.	Imp. Ohms	Cap. pF	Max. Volts	Cable Jacket	100-Ft. Spools Stock No.	100-Ft. Spools EACH	500-Ft. Spools Stock No.	500-Ft. Spools EACH
F-8/U	13 (7x21)	.405	50	24.5	1500	I	661-4000	18.45	661-4001	89.34
F-58/U	20 (Solid)	.195	53.5	17.0	1000	I	661-4040	11.73	661-4041	39.10
F-59/U	22 (Solid)*	.242	73	17.3	1000	I	661-4070	11.65	661-4071	38.91

OPERATING TEMPERATURE LIMITS FOR CABLE JACKETS

Military Desig.	Jacket Type	Temp. Limits
Type I	Black PVC	−40° to +80°C
Type II	Gray PVC	−25° to +80°C
Type IIA	Black or Gray PVC	*−55° to +90°C †−40° to +90°C
Type VII	Teflon (PTFE)	−55° to +250°C
Type IX	Teflon (FEP)	−55° to +200°C

*Under ¼″ O.D. †Over ¼″ O.D.

MIL-C-17D TEFLON DIELECTRIC COAXIAL CABLE

Meet all specifications of MIL-C-17D with the added protection of a Teflon dielectric. Withstands high temperatures; has excellent weathering properties. Chemically inert, insoluble in liquids or gases.

RG No.	Conductor AWG	O.D. Inches	Imp. Ohms	Cap. pF	Max. Volts	Cable Jacket	100-Ft. Spools Stock No.	100-Ft. Spools EACH
178B/U	30 (7x28)	.075	50	28.5	1000	IX	743-2940	42.25
188/U	7x.0067	.110	50	29	1200	VII	NEW DESIGN 188A/U	
188A/U	26 (7x.0067)	.110	50	29	1200	VII	743-3180	43.17
196A/U	30 (7x38)	.080	50	28.5	1000	VII	743-3220	34.15

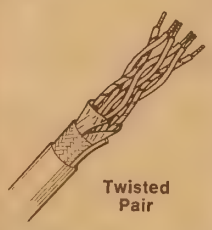
UL/CSA/OSHA Cable & Computer Types



Unshielded



Shielded



Twisted Pair

MULTICONDUCTOR CABLE—UL Listed, CSA Certified, OSHA Acceptable

80°C UNSHIELDED CABLE—300 Volt, UL 2464

For internal wiring or external interconnection of electronic equipment such as: desk calculators, business machines, PA systems, intercoms. Conductor: stranded, annealed, tinned copper. Insulation: AWG #22 types, .009" (.23mm) nom. wall thickness semi-rigid PVC to UL Style 1061, CSA Type S-R PVC; rated 80°C, 300 volts; AWG #16, .016" (.41mm) PVC to UL Style 1007, CSA Type TR-64. Tape wrap: .001" clear mylar. Jacket: Gray 80°C PVC. Nylon rip cord. Superior flame retardancy; excellent resistance to acids, alkalis, oil, moisture, solvents, fungus.

Stock No.	Mfr's Type	Conductors Number	Conductors AWG Ga.	Conductors Strand	Nominal Jacket Thick In.	Nominal Jacket Thick mm	Nominal O.D. In.	Nominal O.D. mm	Weight Lbs./mft.	Weight kg/km	PER ROLL OF 100'
708Q6400	5010	10	22	7/30	.032	.81	.270	6.86	44.4	66.2	43.69
708Q6405	5010/25	25	22	7/30	.032	.81	.375	9.53	95.5	142.4	100.82
708Q6410	5010/40	40	22	7/30	.032	.81	.445	11.30	144.7	215.7	155.93
708Q6480	5078	8	16	26/30	.032	.81	.395	10.03	109.6	163.4	86.45

80°C SHIELDED CABLE—300 Volt, UL 2464

Same construction as above, but with braided tinned copper shield (80-85% coverage). Insulation: .016" (.41mm) nom. wall thickness PVC to UL Style 1007, CSA Type TR-64. For X-ray equipment, alarm/signaling systems, data terminals, etc.

708Q6415	5163	3	18	16/30	.032	.81	.265	6.73	46.1	68.7	46.45
708Q6420	5180	10	16	26/30	.032	.81	.480	12.19	159.1	237.2	141.96

105°C UNSHIELDED CABLE — 600 Volt, UL 2501

For 600-volt relay, switchgear, time recording devices, air conditioners, stamping machines, etc. Conductor: stranded, annealed, tinned copper. Insulation: .032" (.81mm) nom. wall thickness PVC to UL Style 1015, CSA Type TEW; rated 105°C, 600 V. Tape wrap; .001" clear mylar. Jacket: Gray 105°C PVC. Nylon rip cord for ease of jacket stripping. Offers superior flame retardancy; excellent resistance to acids, alkalis, oil moisture, solvents, fungus. Suitable for use at —55°C.

708Q6435	5414	4	20	10/30	.063	1.60	.385	9.78	66.0	98.4	41.75
708Q6440	5417	7	20	10/30	.063	1.60	.445	11.30	95.8	142.8	60.42
708Q6445	5419	9	20	10/30	.063	1.60	.510	12.95	118.4	176.5	73.94
708Q6450	5419/12	12	20	10/30	.063	1.60	.565	14.35	147.1	219.3	93.86
708Q6455	5434	4	16	26/30	.063	1.60	.440	11.18	98.7	147.2	64.42
708Q6460	5437	7	16	26/30	.063	1.60	.515	13.08	149.8	223.3	99.33
708Q6465	5439	9	16	26/30	.063	1.60	.595	15.11	187.3	279.2	123.72
708Q6470	5439/12	12	16	26/30	.063	1.60	.660	16.76	237.0	353.3	160.39

105°C SHIELDED CABLE—600 Volt, UL 2501

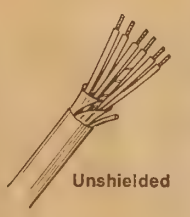
For computer controls, heavy-duty signaling, industrial process monitors, test equipment, etc. Same construction as above but with braided tinned copper shield (80-85% coverage).

708Q6475	5539	9	16	26/30	.063	1.60	.630	16.00	224.9	335.3	150.76

80°C SHIELDED TWISTED PAIR CABLE—300 Volt, UL 2464

Same specifications as 80°C unpaired shielded cable above. For CRT terminals, audio-visual equipment, pressure sensors, etc. Insulation: .009" (.23mm) nominal wall thickness semi-rigid PVC to UL Style 1061, CSA Type SR PVC.

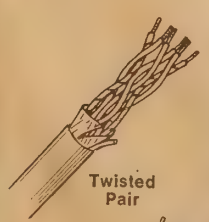
708Q6425	5121	1 pr.	22	7/30	.032	.81	.195	4.95	21.7	32.4	31.28
708Q6430	5129	9 pr.	22	7/30	.032	.81	.415	10.54	97.5	145.4	106.13



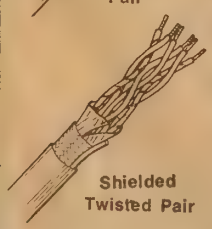
Unshielded



Shielded



Twisted Pair



Shielded Twisted Pair

MULTICONDUCTOR COMPUTER CABLE—UL Listed, CSA Certified, OSHA Acceptable

80°C UNSHIELDED COMPUTER CABLE—UL 2343

Appliance wiring material suitable for use with electronic computers and business machines, such as: data terminals, process and computer controls, CRT terminals, data transmission. Conductor: stranded, annealed, tinned copper. Insulation: .009" (.23mm) nominal wall thickness semi-rigid PVC to UL Style 1061, CSA Type SR-PVC; rated at 80°C, 300 volts. Tape wrap: .001" clear mylar. Nylon rip cord for ease of jacket stripping. Jacket: Gray 80°C PVC; measurement indicator at 1' intervals. Superior flame retardancy; excellent resistance ot acids, oil, moisture, solvents, fungus. Suitable for use at —40°C.

Mfr's Type	Conductors No. of Cond.	Conductors AWG Gauge	Conductors Strand	Nominal Jacket Thick. In.	Nominal Jacket Thick. mm	Nominal O.D. In.	Nominal O.D. mm	Weight Lbs./mft.	Weight kg/km	Coil of 100 Feet Stock No.	Coil of 100 Feet EACH	Coil of 500 Feet Stock No.	Coil of 500 Feet EACH	Coil of 1000 Feet Stock No.	Coil of 1000 Feet EACH
5202	12	24	7/32	.063	1.60	.320	8.13	54.7	81.6	708Q6500	100.15	708Q6501	409.51	708Q6502	682.48
5203	15	24	7/32	.063	1.60	.340	8.64	63.3	94.4	708Q6505	136.11	708Q6506	556.78	708Q6507	927.94
5204	19	24	7/32	.063	1.60	.360	9.15	73.8	110.0	708Q6510	147.51	708Q6511	603.46	708Q6512	1005.76
5205	27	24	7/32	.063	1.60	.410	10.41	96.3	143.6	708Q6515	177.49	708Q6516	806.82	708Q6517	1344.70
5210	5	22	7/30	.063	1.60	.270	6.86	39.1	58.3	708Q6520	72.56	708Q6521	296.71	708Q6522	494.53
5213	15	22	7/30	.063	1.60	.370	9.40	80.4	119.9	708Q6525	147.11	708Q6526	601.77	708Q6527	1002.97
5215	27	22	7/30	.063	1.60	.440	11.18	125.6	187.3	708Q6530	193.99	708Q6531	881.83	708Q6532	1469.76
5216	37	22	7/30	.063	1.60	.490	12.45	160.9	239.9	708Q6535	267.73	708Q6536	1216.90	708Q6537	2028.19
5221	7	20	19/32	.063	1.60	.320	8.13	64.1	95.6	708Q6540	92.08	708Q6541	376.75	708Q6542	627.90
5225	27	20	19/32	.063	1.60	.510	12.95	185.0	275.8	708Q6545	239.47	708Q6546	1088.53	708Q6547	1814.26

80°C SHIELDED COMPUTER CABLE—UL 2343

For computer and business applications, including: telemetering, data displays, printouts, credit verification systems. Conductor: stranded, annealed, tinned copper. Insulation: .009" (.23mm) nom. wall thickness semi-rigid PVC to UL Style 1061, CSA Type SR-PVC; rated 80°C, 300V. Tape wrap: .001" clear mylar. Nylon rip cord. Shield: braided tinned copper (85-90% coverage.). Jacket: Gray 80°C PVC. Superior flame retardancy. Resists acids, alkalis, oil, moisture, fungus.

5301	7	24	7/32	.063	1.60	.290	7.37	50.0	74.5	708Q6550	88.81	708Q6551	363.40	708Q6552	605.67
5302	12	24	7/32	.063	1.60	.345	8.76	62.0	92.4	708Q6555	120.22	708Q6556	491.77	708Q6557	819.61
5304	19	24	7/32	.063	1.60	.380	9.65	90.3	134.6	708Q6560	154.39	708Q6561	701.80	708Q6562	1169.68
5305	27	24	7/32	.063	1.60	.430	10.92	116.4	173.5	708Q6565	203.16	708Q6566	923.50	708Q6567	1539.21
5307	48	24	7/32	.063	1.60	.520	13.21	175.9	262.3	708Q6570	345.84	708Q6571	1571.98	708Q6572	2619.97
5311	7	22	7/30	.063	1.60	.310	7.87	59.8	148.9	708Q6575	96.18	708Q6576	393.42	708Q6577	655.69
5312	12	22	7/30	.063	1.60	.380	9.65	86.2	128.5	708Q6580	132.05	708Q6581	540.10	708Q6582	900.16
5314	19	22	7/30	.063	1.60	.410	10.41	113.8	169.7	708Q6585	169.42	708Q6586	770.16	708Q6587	1283.58
5315	27	22	7/30	.063	1.60	.470	11.94	148.0	220.7	708Q6590	225.52	708Q6591	1025.22	708Q6592	1708.68
5316	37	22	7/30	.063	1.60	.510	12.95	186.0	277.3	708Q6595	306.61	708Q6596	1393.60	708Q6597	2322.66
5324	19	20	19/32	.063	1.60	.465	11.81	159.6	237.9	708Q6600	204.64	708Q6601	930.18	708Q6602	1550.31

80°C TWISTED PAIR COMPUTER CABLE—UL 2343

Conductor: stranded, annealed, tinned copper. Insulation: .009" (.23mm) nom. wall thickness semi-rigid PVC to UL Style 1061, CSA Type SR-PVC; rated at 80°C, 300 V. Tape wrap: .001" clear mylar. Nylon rip cord for ease of jacket stripping. Jacket: Gray 80°C PVC; measurement indicator at 1' intervals. Offers superior flame retardancy; excellent resistance to acids, oils, moisture, solvents, fungus. Can be used down to —40°C.

Appliance wiring material for use with electronic computers and business machines, including: data terminals, copy machines, dictating machines, mainframe circuitry. Available with 12 to 27 pairs.

Mfr's Type	Conductors No. of Pairs	Conductors AWG Gauge	Conductors Strand	Nominal Jacket Thick. In.	Nominal Jacket Thick. mm	Nominal O.D. In.	Nominal O.D. mm	Weight Lbs./mft.	Weight kg/km	Coil of 100 Feet Stock No.	Coil of 100 Feet EACH	Coil of 500 Feet Stock No.	Coil of 500 Feet EACH	Coil of 1000 Feet Stock No.	Coil of 1000 Feet EACH
5242	12	22	7/30	.063	1.60	.485	12.32	123.4	184.0	708Q6605	162.10	708Q6606	736.81	708Q6607	1228.03
5243	15	22	7/30	.063	1.60	.535	13.59	147.6	220.1	708Q6610	213.07	708Q6611	968.52	708Q6612	1614.21
5244	19	22	7/30	.063	1.60	.565	14.35	176.1	262.5	708Q6615	239.47	708Q6616	1088.53	708Q6617	1814.26
5245	27	22	7/30	.063	1.60	.645	16.38	235.3	350.8	708Q6620	317.58	708Q6621	1443.61	708Q6622	2406.04

Available with 5 to 19 twisted pairs. Conductor: stranded, annealed, tinned copper. Insulation: .009" (.23mm) nom. wall thickness semi-rigid PVC to UL Style 1061, CSA Type SR-PVC; rated 80°C, 300V. Tape wrap: .001" clear mylar. Shield: braided tinned copper .85-90% coverage. Nylon rip cord. Jacket: Gray 80°C PVC. Offers superior flame retardancy and excellent resistance to acids, oil, moisture, solvents, fungus. Use down to —40°C. For computer and business machine use.

Shielded twisted pairs for use in telemetering, data transmission, process monitors, computer controls, cathode ray terminals, credit verification systems and other computer and business applications.

Mfr's Type	Conductors No. Pairs	Conductors AWG Gauge	Conductors Strand	Nominal Jacket Thick In.	Nominal Jacket Thick mm	Nominal O.D. In.	Nominal O.D. mm	Weight Lbs./mft.	Weight kg/km	Coil of 100 Feet Stock No.	Coil of 100 Feet EACH	Coil of 500 Feet Stock No.	Coil of 500 Feet EACH	Coil of 1000 Feet Stock No.	Coil of 1000 Feet EACH
5330	5	24	7/32	.063	1.60	.365	9.27	70.0	104.4	708Q6630	101.03	708Q6631	459.23	708Q6632	765.38
5332	12	24	7/32	.063	1.60	.465	11.81	117.7	175.5	708Q6635	168.84	708Q6636	757.45	708Q6637	1279.08
5340	5	22	7/30	.063	1.60	.395	10.03	84.3	125.7	708Q6640	111.75	708Q6641	507.99	708Q6642	845.63
5341	7	22	7/30	.063	1.60	.410	10.41	99.3	148.0	708Q6645	128.01	708Q6646	581.87	708Q6647	969.80
5344	19	22	7/30	.063	1.60	.590	14.99	205.3	306.1	708Q6650	271.59	708Q6651	1234.55	708Q6652	2058.81

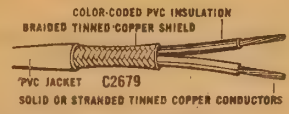
See Page 2 for the Allied Electronics Facility Nearest You

Shielded and Unshielded Audio Cables

AUDIO CABLES

SHIELDED AUDIO CABLE—BRAID SHIELD

Type 3221: Meets MIL-W-16878D Type B. Each conductor stranded tinned copper, color-coded .010" PVC insulation; covered with clear .003" nylon jacket. Cabled, braided tinned copper shield. White PVC jacket. **Other Types:** Tinned copper conductor with color-coded PVC insulation; conductors twisted, tinned copper braid shield, covered with gray PVC jacket.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
708-7208	3221	100	2	22	19x34	.168	4.27	2.8	1.27	20.37
758-0502	C2679	100	2	22	7x30	.185	4.75	6.0	2.73	10.63
758-0506	C2681	100	2	20	10x30	.204	5.24	5.0	2.27	14.76
758-0510	C2686	100	2	18	16x30	.224	5.08	3.0	1.36	15.71
758-0500	C2678	100	3	22	7x30	.200	5.08	6.0	2.73	12.46
758-0512	C2687	100	3	18	16x30	.236	6.00	4.0	1.82	28.39

SHIELDED AUDIO CABLE—SPIRAL SHIELD

Tinned copper conductor, color-coded PVC insulation; conductor twisted, tinned copper shield, gray PVC jacket overall.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
758-0516	C2882	100	2	22	7x30	.175	4.45	4.0	1.82	13.55
758-0517	C1335	500	2	22	7x30	.175	4.45	20.0	9.09	38.71
758-0519	C2888	500	2	20	10x30	.195	4.95	13.0	5.91	45.46
758-0520	C2892	100	2	18	16x30	.230	5.84	7.0	3.26	14.12

SHIELDED AUDIO CABLE—FOIL SHIELD

Tinned copper conductor, color-coded polyethylene insulation; conductor cable wrapped with mylar-supported aluminum foil shield, foil facing outside; stranded, tinned copper drain wire; gray PVC jacket overall.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
708-6350	2402	100	2	22	7x30	.170	4.32	2.0	.91	10.19
708-6349	2462	500	2	22	7x30	.170	4.32	7.5	3.41	40.75
708-6355	2461	1000	2	22	7x30	.135	3.43	14.8	6.73	74.32
758-3691	C2524	500	2	20	10x30	.195	4.95	12.0	5.23	37.84
758-3643	C2534	500	2	18	16x30	.222	5.67	15.0	6.91	45.37
758-3644	C2534	1000	2	18	16x30	.222	5.67	30.0	13.53	90.75

SHIELDED AUDIO AND DATA CABLE

Available in solid or stranded conductor styles, with tinned copper conductor and color-coded insulation (solid—.015" PVC, stranded—.08" polypropylene); each pair and its drain wire under aluminum foil/polyester shield. PVC jacket overall. When ordering, please specify stock no., manufacturer's type, and conductor (number, size and strand).



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
758-0710	C6040	100	6	22	7x30	.270	6.58	5.0	2.27	23.16
708-8712	6012	100	12	22	7x30	.372	8.69	9.5	4.32	50.60
758-9010	C6035	100	6	22	Solid	.279	7.13	5.0	2.27	20.47
758-9020	C6036	100	12	22	Solid	.394	10.0	9.0	4.09	41.73
708-8710	6010	100	6	22	7x30	.292	6.94	5.13	2 34	25.05
708-8716	6016	100	22	22	7x30	.467	11.60	16.0	7.54	89.35
708-8720	6020	100	38	22	7x30	.590	13.82	26.0	11.53	159.07

SHIELDED SOUND BROADCAST, AUDIO AND INSTRUMENTATION CABLES

Vinyl jacket. 100, 500 or 1000 foot spool.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
758-9040	C1352	100	4	22	7x30	.165	4.23	2.4	1.09	12.69
758-9041	C1352	500	4	22	7x30	.165	4.23	11.0	5.08	54.89
758-9042	C1352	1000	4	22	7x30	.165	4.23	22.3	9.94	109.79

SPIRAL SHIELD PLASTIC-JACKETED CABLE

Spiral-wrapped copper shield. 95% shielded coverage for audio and RF frequencies. Each conductor stranded tinned copper. Color-coded stranded-tinned copper. Color-coded PVC insulation. Temp.: −20°C to +60°C. All working voltages 350V. All have gray polyvinyl chloride jackets.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
708-6320	2254/1	100	1	22	7x30	.115	2.92	2.0	.91	12.50
708-6321	2254	100	2	22	7x30	.175	4.45	2.4	1.09	14.75
708-6326	2256	100	2	20	10x30	.195	4.95	2.7	1.23	12.44

SHIELDED CONTROL CABLE

Extremely flexible conductor of stranded tinned copper, color-coded. Rubber insulation, cabled with filler. Cotton wrap, braided, tinned copper shield cotton wrap. Rubber jacket overall (.035"). Nom. wall thickness .019". Operating temp. of −20° to +60°C. **Type 1716:** Polyethylene insulation, gray PVC jacket. **C1302, C1202 Multi-Conductor Cables:** For low-impedance applications. Tinned copper, cotton wrap, rubber insulated conductors cabled, rayon braid, black rubber jacket. **C1644** has polyethylene insulation and gray PVC jacket.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
758-0102	C1302	100	2	20	26x34	.270	6.58	13.0	5.91	27.61
758-0001	C1201	100	1	18	41x34	.240	6.04	7.0	3.19	26.10
758-0003	C1202	100	2	18	41x34	.295	7.23	11.0	5.08	31.10
758-0104	C1304	100	3	20	26x34	.285	7.10	11.0	5.08	31.18
758-0410	C1644	100	4	20	26x34	.260	6.30	6.0	2.73	26.74
708-6040	1716	100	5	20	26x34	.275	6.99	7.0	3.18	33.07

MICROPHONE CABLE TWO CONDUCTOR BRAIDED SHIELDED PVC JACKET

For use with low impedance microphones. Construction: Tinned copper conductors, color-coded polyethylene insulation cabled with fillers, textile wrap, braided tinned copper shield, high gloss silver gray jacket. —20°C to +60°C.



758-2058	C1322	100	2	22	16x34	.231	5.87	4.0	1.82	17.77

SOUND AND INTERCOM CABLE

Tinned copper, color-coded PVC. Conductors are twisted and shielded with tinned copper braid shield (742202). —20°C to +60°C. Rated 350 working volts. .020" nom. jacket thickness.



768-8842	742202	100	2	22	7x30	.010	.27	2.0	.91	15.03

COMMUNICATION AND INTERCOM COMBINATION CABLE

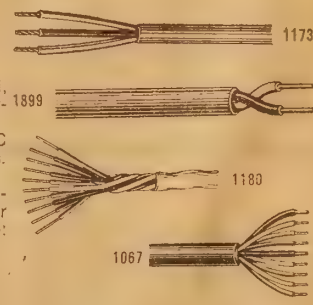
Each conductor stranded, tinned copper; color-coded PVC or polypropylene insulation; braided, tinned or aluminum, mylar over conductors forming shield. Unshielded (2) paired. Foil shielded cables have solid tinned copper drain for grounding.



708-6358	2465	100	4	20	7x28	.233	5.92	3.8	1.73	16.87

MULTI-CONDUCTOR UNSHIELDED AUDIO CABLE

Twisted copper conductors, PVC jacketed, color-coded. For outdoor installations. Temperature: +20°C to +80°C, 150V, UL2576.
*UL style 2509. Twisted copper conductors, PVC jacketed, color-coded. For outdoor installations. Temperature: −20°C to +80°C, 300V rating.
†Copper inner conductors, color-coded PVC insulation with Mylar wrap, PVC jacketed. Inner conductors meet UL style, 1011. Temperature: −20°C to +80°C. Rated at 600 volts.



Stock No.	Mfr's Type	Ft. per Spool	Conductor			Nominal O.D.		Weight		EACH
			No.	Size	Strand	In.	mm	Lbs.	Kg	
708-5397	1172	100	2	22	7x30	.164	4.16	1.3	.59	8.75
708-2079	1172	500	2	22	7x30	.164	4.16	8.5	3 86	22.46
708-0903	1895*	500	2	20	10x30	.180	4.57	9.3	4.23	26.39
708-6250	1897*	100	2	18	16x30	.200	5.08	2.5	1.14	14.63
708-2221	1897*	500	2	18	7x26	.200	5.08	15.0	6 82	39.16
708-2284	1899*	500	2	16	26x36	.225	5.72	19.3	8 77	56.11
708-5398	1173	100	3	22	7x30	.169	4.29	1.5	68	10.25
708-2082	1173	500	3	22	7x30	.169	4.29	10.0	4.55	27.64
708-5399	1174	100	4	22	7x30	.170	4.32	2.0	91	13.75
708-2085	1174	500	4	22	7x30	.194	4.92	12.5	5.68	37.74
708-2365	1898/4*	100	4	18	16x30	.240	6.10	5.25	2 39	17.62
708-2367	1898/4*	500	4	18	16x30	.240	6.10	26.25	11.93	73.48
708-2087	1175	100	5	22	7x30	.199	5.05	2.75	1 25	10.69
708-2088	1175	500	5	22	7x30	.199	5.05	13.75	6 25	45.00
708-5401	1176	100	6	22	7x30	.209	5.30	2.6	1.18	16.28
708-2090	1826	100	6	18.22	18x30	.225	5.72	4.5	2.05	16.37
708-3719	1067*	100	7	16	19x29	.458	11.63	13.0	5.91	50.85
708-2096	1828	100	8	18.22	16x30	.250	6.35	5.0	2.27	20.54
708-2097	1828	500	8	18.22	16x30	.250	6.35	25.0	11.36	90.35
758-2099	C4084	100	9	18.22	16x30	.235	5.97	4.2	1.91	20.08
708-5405	1180	100	10	22	7x30	.259	6.57	26.25	11.93	21.88
708-2121	1180	500	10	22	7x30	.259	6.57	5.0	2.27	98.53
708-5406	1181	100	12	22	7x30	.279	7.08	5.0	2.27	46.26
708-2128	1181	500	12	22	7x30	.279	7.08	27.5	12.5	112.06
708-2247	1898/12*	100	12	18	16x30	.385	9.78	13.5	6.14	51.52
708-3724	1072†	100	12	16	19x29	.604	15.34	21.75	9.89	82.83
708-5407	1181/15	100	15	22	7x30	.304	7.72	6.2	2.82	38.99
708-6256	1898/15*	100	15	18	16x30	.445	11.30	18.7	8.50	70.31
708-5408	1181/20	100	20	22	7x30	.324	8.22	8.2	3.73	46.26
708-5409	1181/25	100	25	22	7x30	.364	9.24	10.0	4.55	60.90

Heavy-Duty Extension Cords and Outlet Boxes

THREE-CONDUCTOR BUSINESS MACHINE POWER SUPPLY CORDS

Stock No.	Mfr's Type	Cord Type	Length (Ft.)	Color	Type Pkg.	Rating	EACH 1-9	EACH 10-Up
663-7060	24507	18/3 SVT	8	Gray	Hanked	10A-125V	3.20	2.69
663-7070	24509	18/3 SVT	8	Gray	Hanked	10A-125V	3.20	2.69

HIGH QUALITY CORDS FOR EVERY APPLICATION

THREE-CONDUCTOR POWER SUPPLY AND REPLACEMENT CORDS

Stock No.	Allied Type	Equivalent Types: Belden	Columbia	Dearborn	Size & Type	Lgth.	Rating @ 125V	Color	EACH 1-9	EACH 10-Up
663R7016	7016	17236	20328	9601	18/3 SV	6′	10A	Black	1.95	1.64
663-7017	7017	17238	20329	9603	18/3 SV	8′	10A	Black	2.21	1.86
663R7018	7018	17237	20330	9609	18/3 SVT	6′	10A	Gray	1.66	1.40
663R7019	7019	17239	20331	....	18/3 SJ	8′	10A	Gray	1.90	1.60
663R7020	7020	17406	20264	9615	18/3 SJ	6′	10A	Black	2.09	1.81
663-7021	7021	17408	20314	9617	18/3 SJ	8′	10A	Black	2.38	2.00
663-7022	7022	17412	20317	....	18/3 SJ	12′	10A	Black	3.38	2.84
663-7023	7023	17405	24936	....	18/3 SJT	6′	10A	Gray	1.76	1.48
663-7025	7025	.....	24939	....	18/3 SJT	9′	10A	Gray	2.55	2.14
663-7026	7026	17409	.....	9643	18/3 SJO	8′	7A	Black	3.25	2.60
663-7027	7027	.....	24926	....	16/3 SJT	6′	13A	Black	2.61	2.27
663-7028	7028	....	20324	....	16/3 SJ	8′	13A	Black	3.21	2.57
663-7029	7029	17419	24929	9619	16/3 SJ	9′	13A	Black	3.13	2.50
663-7030	7030	17242	24932	....	16/3 SJ	12′	13A	Black	3.88	3.34
663-7031	7031	.....	24946	....	16/3 SJT	6′	13A	Gray	2.45	1.96
663-7032	7032	.....	24949	....	16/3 SJT	9′	13A	Gray	3.45	2.76

THREE-CONDUCTOR EXTENSION CORD

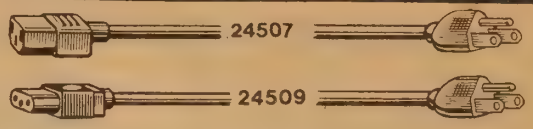
Stock No.	Allied Type	Equivalent Types: Belden	Columbia	Dearborn	Size & Type	Lgth.	Rating @ 125V	Color	EACH 1-9	EACH 10-Up
663R7043	7043	17460	20288	9636	18/3 SJ	10′	10A	Black	3.90	3.28
663-7044	7044	.....	26525	9638	18/3 SJ	25′	10A	Black	8.68	7.53
663R7046	7046	.....	26610	9641	16/3 SJ	10′	10A	Black	5.25	4.20
663-7047	7047	.....	20294	9640	16/3 SJ	15′	13A	Black	7.38	5.90
663-7048	7048	.....	26625	9642	16/3 SJ	25′	13A	Black	9.03	7.22

TWO-CONDUCTOR POWER SUPPLY AND REPLACEMENT CORDS

Stock No.	Allied Type	Equivalent Types: Belden	Columbia	Dearborn	Size & Type	Lgth.	Rating @ 125 V	Color	EACH 1-9	EACH 10-Up
663-7000	7000	17206	20250	9600	18/2 SV	6′	10A	Black	1.53	1.28
663-7003	7003	17205G	20327G	9602	18/2 SVT	6′	10A	Gray	1.19	1.03
663-7008	7008	...	24546	...	18/2 SJT	6′	10A	Gray	1.48	1.28

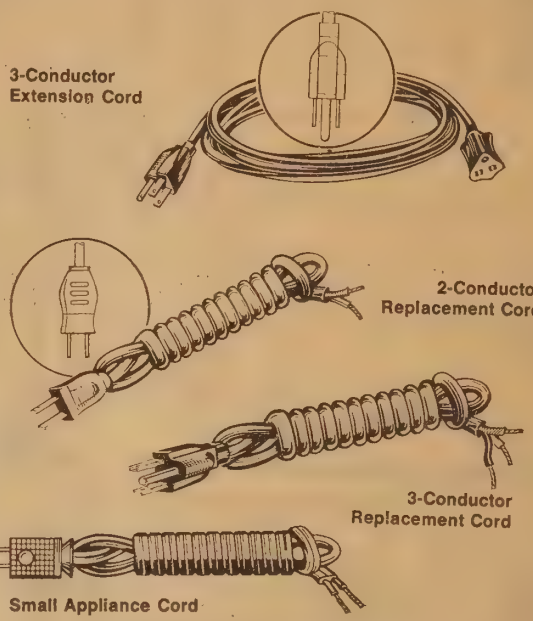
SMALL APPLIANCE CORDS

Stock No.	Allied Type	Equivalent Types: Belden	Columbia	Dearborn	Size & Type	Lgth.	Rating @ 125 V	Color	EACH 1-9	EACH 10-Up
663R7012	7012	17106	24586	9650	18/2 SPT-1	6′	10A	Brown	1.12	.94
663-7013	7013	...	24596	...	18/2 SPT-1	6′	10A	White	1.12	.94
663-7014	7014	17109	24589	9651	18/2 SPT-1	9′	10A	Brown	1.28	1.08
663-7015	7015	...	24599	...	18/2 SPT-1	9′	10A	White	1.28	1.08



BUSINESS MACHINE POWER SUPPLY CORDS

There is no need to let business machines sit idle, replace worn-out or missing cords with these three-conductor power supply cords. Both types have an all plastic cord and polyvinyl chloride insulation jacket. See table, left, for more information.



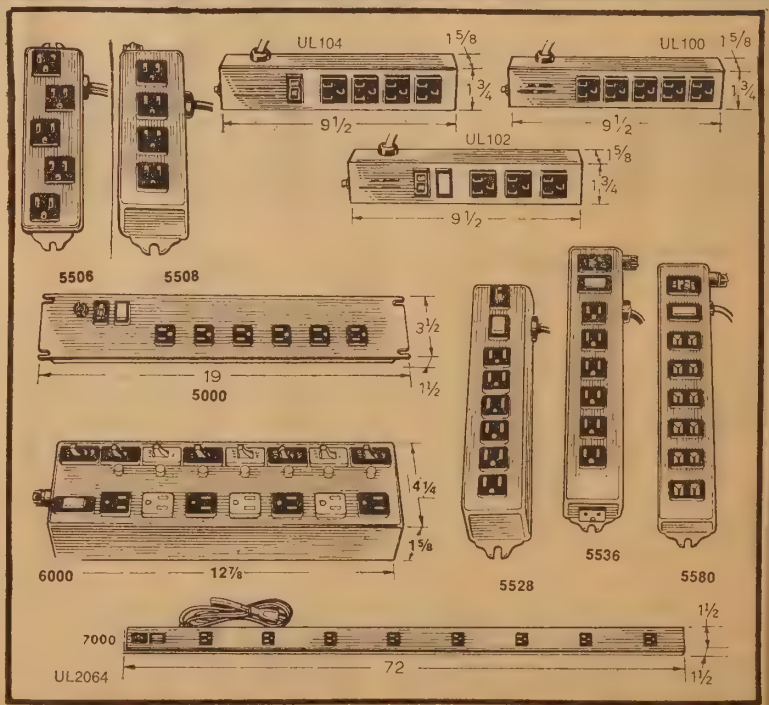
CLASS AND TYPE DESIGNATIONS

Cords on this page are UL Listed. The type designations of the National Electrical Code are as follows: **SJ,** junior hard-service cord. Rubber insulation, ethylene propylene rubber or other rubber jacket. 300 V. **SJO,** junior hard-service oil-resistant cord. Rubber insulation, nitrile-PVC jacket or neoprene jacket. 300 V. **SJT,** junior hard-service cord. Polyvinyl chloride insulation and jacket. 300 V. **SPT-1,** All-plastic parallel cord. 30 mils polyvinyl chloride insulation/jacket. 300 V. **SV,** Rubber insulation, rubber jacket, 300 V. **SVT,** All plastic cord. Polyvinyl chloride insulation/jacket. 300 V.

OUTLET BOXES

Just plug in anywhere you need these handy outlet boxes to give you the power you require. All are ready to use in the shop, laboratory office or in the home. 5000, 6000, and 7000 series cases are made of heavy steel, finished in gray, The UL series outlets are made of extruded non-corrosive aluminum housing with baked on silver gray (chip-proof) P.P G enamel and come equipped with easy snap-on adjustable mounting hardware. The UL series are UL listed 977E. UL204 is similar to UL104, except it has 7 outlets, 1¾x1⅝x12½". Units are mechanically grounded and come with fuse or circuit breaker protection, except Type 5506 which has ground outlets only. Type 5580 is 2-wire, all others 3-wire grounded. Rated 15 amps 125 volts. Has *Pilot light, †Switch. Types 5506 and 5508 are 8⅝x2⅜x1½", mounting centers are 8¼". Types 5536, 5580 and 5528 are 13⅝x2⅜x1½", mounting centers are 12⅜". All boxes have 6 or 15 foot cords, see table.

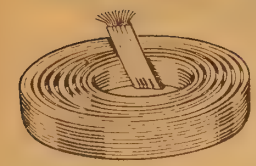
Stock No.	Mfr's Type	No. Outlets	Fuse	Circuit Breaker	Cord L. Ft.	EACH 1-4	EACH 5-Up
533-7000	5506	5	...	...	6	13.05	10.30
533-7010	5508	4	X	...	6	14.40	11.52
533-7020	5508	4	...	X	6	13.18	11.85
533-7025	5508	4	...	X	15	14.50	13.74
533-7060	5536*†	7	X	...	6	16.60	15.84
533-7070	5536*†	7	...	X	6	18.85	17.69
533-7095	5580*†	6	...	X	6	14.40	13.95
533-7100	5528*†	6	X	...	6	15.65	14.75
533-7105	5528*†	6	X	...	15	17.90	16.85
533-7110	5528*†	6	...	X	6	17.90	16.85
533-7115	5528*†	6	...	X	15	20.15	18.95
533-7135	5000*†	7	...	X	6	24.55	23.10
533-7140	6000*†	6	X	...	6	34.55	32.50
533-7150	6000*†	6	...	X	6	36.80	34.60
533-7155	6000*†	6	...	X	15	39.05	36.70
533-7170	7000*†	8	...	X	6	28.50	26.83
533-7175	7000*†	8	...	X	15	30.75	28.93
533-1106	UL100	5	...	X	6	14.90	13.40
533-1107	UL100	5	...	X	15	17.30	15.55
533-1126	UL102*†	3	...	X	6	15.25	13.74
533-1127	UL102*†	3	...	X	15	17.65	15.88
533-1146	UL104†	4	...	X	6	16.05	14.45
533-1147	UL104†	4	...	X	15	18.45	16.60
533-1246	UL204†	7	...	X	6	19.55	17.60
533-1247	UL204†	7	...	X	15	21.95	19.75
533-2064	UL2064*†	9	...	X	6	32.40	29.15
533-2065	UL2064*†	9	...	X	15	34.80	31.32

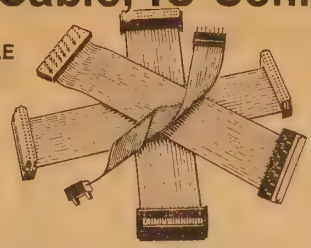


See Page 2 for the Allied Electronics Facility Nearest You

Ribbon Cable, IC Connectors and Assemblies

RIBBON CABLE



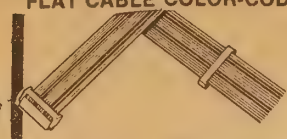


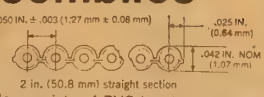
Offers the advantages of round conductors with no change in mechanical, electrical or physical characteristics of insulation or conducting wires. Patented cohesion processed PVC insulation meets **MIL-W-16878D**, latest revision. Type B. Temp. range: −55°C to +105°C. 600 volts. Color-coded cables include the following colors in series: Brown, Orange, Yellow, Green, Blue, Violet, Gray, White, Black (repeat). Range, 10-30 conductors; 22-30 gauge; 7-19 strands.

FLAT-BONDED, ROUND-CONDUCTOR CABLE

Stock No.	Mfr's Type	Conductors No.	Conductors AWG	Conductors Strds.	Width In.	Width mm	Thickness In.	Thickness mm	Wt. Lbs.	PER 100-FT. ROLL 1-4	5-9	10-Up
943-1000	3570	10	30	7	.311	7 89	.032	0.81	2	24.97	22.92	21.90
943-1001	3560	10	28	7	351	8.91	.035	0.88	2	24.30	22.32	21.32
943-1002	3550	10	26	7	.392	9.95	.039	0 99	3	19.68	18.08	17.27
943-1003	3540/7	10	24	7	.440	11.1	.044	1.11	4	23.37	21.45	20.50
943-1004	3530/7	10	22	7	.510	12.9	.051	1.29	5	30.40	27.92	26.67
943-1005	3540	10	24	19	.440	11.1	044	1.11	4	32.13	29.52	28.18
943-1006	3530	10	22	19	.510	12.9	051	1.29	5	37.65	34.59	33.05
943-1009	3551	15	26	7	.587	14 9	.039	0.99	4	29.53	27.13	25.92
943-1010	3541/7	15	24	7	.660	16.7	044	1.11	5	35.07	32.20	30.77
943-1011	3531/7	15	22	7	.765	19.4	.051	1.29	7	45.67	41.94	40.07
943-1012	3541	15	24	19	.660	16.7	044	1.11	5	48.25	44.32	42.34
943-1013	3531	15	22	19	.765	19.4	.051	1.29	7	56.47	51.87	49.57
943-1016	3552	20	26	7	.783	19.8	.039	0.99	5	39.39	36.17	34.57
943-1017	3542/7	20	24	7	.880	22.3	.044	1.11	6	46.74	42.92	41.02
943-1018	3532/7	20	22	7	1.02	25.9	.051	1.29	8	60.81	55.84	53.34
943-1019	3542	20	24	19	880	22 3	044	1.11	6	64.27	59.02	56.41
943-1020	3532	20	22	19	1 02	25.9	.051	1.29	8	75.21	69.06	66.01
943-1024	3543/7	30	24	7	1 32	33 5	.044	1 11	8	70.13	64.39	61.52
943-1025	3533/7	30	22	7	1 53	38.8	.051	1.29	11	91.11	83.68	79.96

FLAT CABLE COLOR-CODED



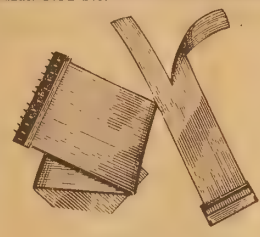


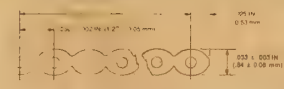
2 in. (50.8 mm) straight section

Cable consists of PVC insulated round conductors on .050 in. (1.27mm) centers laminated to PVC film. The lamination results in controlled electrical characteristics with the advantage of color-coding, ease of separation and mass termination. Cable can be terminated with any major brand Insulation Displacement Con-

Stock No.	Mfr's Type	Similar Spectra-Strip	No. of Cond.	Width In	Width (mm)	PER 100-FT. SPOOL 1-4	5-9	10-Up
943-1049	3581/10	455-044-10	10	.45	(11 43)	32.00	25.60	21.60
943-1050	3581/14	455-044-14	14	.65	(16.51)	44.80	35.84	30.24
943-1051	3581/16	455-044-16	16	.75	(19.05)	51.20	40.96	34.56
943-1052	3581/20	455-044-20	20	.95	(24.13)	64.00	51.20	43.20
943-1053	3581/26	455-044-26	26	1.25	(31.75)	83.20	66.56	56.16
943-1054	3581/34	455-044-34	34	1.65	(41.91)	108.80	87.04	73.44
943-1055	3581/40	455-044-40	40	1.95	(49 53)	128.00	102.40	86.40
943-1056	3581/50	455-044-50	50	2.45	(62.23)	160.00	128.00	108.00

FLAT CABLE

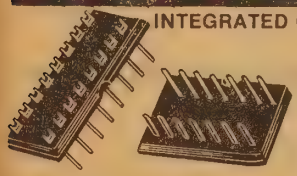




Flat cable designed for general purpose interconnections. Excellent tear-down characteristics. 28 AWG strand tinned conductor laminated between layers of PVC film. U.L. listed. Temp. rating: 105°C. Voltage rating: 300 volts. Capacitance: 14 pf/ft nom. Impedance: 105 ohms nom. Propagation delay: 1.4 ns/ft. Resists acids, alkalis, oil, moisture, solvents, ozone, and fungus. **SOLD ONLY IN 100 FOOT COILS.**

Stock No.	Mfr's Type	No. of Cond.	Nominal Width in.	Nominal Width (mm)	Weight/Roll lbs.	Weight/Roll kg.	EACH 1-4	5-9	10-49	50-Up
708-9690	3580/10	10	.45	(11.43)	1.2	0 55	19.25	16.38	13.38	11.49
708-9700	3580/14	14	.65	(16.51)	1 7	0 78	27.00	22.80	18.73	16.08
708-9710	3580/16	16	.75	(19.05)	2.0	0 88	30.77	26.07	21.40	18.37
708-9720	3580/20	20	.95	(24.13)	2.4	1.11	38.50	32.50	26.70	22.95
708-9730	3580/26	26	1 25	(31.75)	3.2	1 44	49.95	42.40	34.80	29.90
708-9760	3580/50	50	2 45	(62 23)	6.1	2 77	96.10	81.48	66.90	57.50

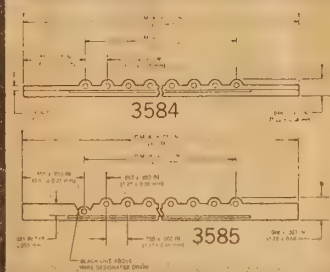
INTEGRATED CIRCUIT CONNECTORS AND ASSEMBLIES



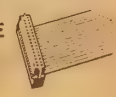
Cable assembles with 14- or 16-pin dual-in-line IC connectors at one or both ends. IC harness assemblies offer predictable, uniform capacitance and impedance. 28 AWG stranded tinned copper conductor. PVC insulated round conductors on .050" (1.27mm) centers laminated between two sheets of clear PVC film, .010" (.25mm) nom. wall PVC. Temp. rating: 80°C. Volt. rating: 300V. U.L. listed.

Stock No.	Mfr's Type	Pins	No. of Ends with Conn.	Length Inches	EACH 1-9	10-49	50-99	100-Up
943-1150	132-012	14	2	12	5.30	4.24	3.26	2.83
943-1151	132-024	14	2	24	7.05	5.64	4.34	3.76
943-1153	132-048	14	2	48	7.20	5.76	4.43	3.84
943-1154	142-012	16	2	12	6.07	4.86	3.73	3.24
943-1155	142-024	16	2	24	6.33	5.06	3.89	3.37
943-1156	142-036	16	2	36	6.83	5.46	4.20	3.64
943-1157	142-048	16	2	48	8.30	6.64	5.11	4.43
943-1158	131-012	14	1	12	2.77	2.22	1.71	1.48
943-1159	131-024	14	1	24	3.47	2.78	2.14	1.85
943-1160	131-036	14	1	36	4.00	3.20	2.46	2.13
943-1161	131-048	14	1	48	4.50	3.60	2.77	2.40
943-1162	141-012	16	1	12	3.27	2.62	2.02	1.75
943-1163	141-024	16	1	24	3.85	3.08	2.37	2.05
943-1164	141-036	16	1	36	4.47	3.58	2.75	2.39
943-1165	141-048	16	1	48	5.03	4.02	3.09	2.68

GROUND PLANE GRAY LAMINATED FLAT CABLE



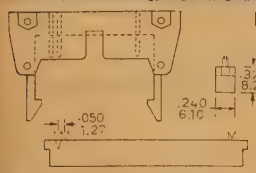
NEW!



Applicable for computer and communications. Laminated gray flat cable with 0.005" (0.13mm) expanded copper mesh laminated to the cable with PVC sheet. 28 AWG stranded tinned copper conductor laminated between layers of PVC film. Gray PVC with black edge (with drain wire), or red edge (without drain wire). Temp. rating: 105°C. Volt. rating: 300V. Capacitance: 25.3 pf/ft (83.0 pf/m). Propagation delay: 1.65 ns/ft. 5.6ns/m. Impedance: 65 ohms nom.

W/O Drain Wire Stock No.	W/O Drain Wire Mfr's Type	W/Drain Wire Stock No.	W/Drain Wire Mfr's Type	No. Of Cond.	DEMA In.	DEMA mm	DEMB In.	DEMB mm	Weight lbs.	Weight kg	EACH 1-4	5-9	10-Up
943-1500	3584/10	943-1600	3585/10	10	.75	19.05	45	11.43	3.6	1.6	71.14	58.42	53.58
943-1505	3584/14	943-1605	3585/14	14	.95	24.13	.65	16 51	5.0	2 3	96.20	81.78	57.60
943-1510	3584/16	943-1610	3585/16	16	1.05	26 67	.75	19 05	5.7	2.6	109.96	93.47	65.85
943-1515	3584/20	943-1615	3585/20	20	1 25	31.75	.95	24.13	7.2	3.3	137.45	116.85	82.30
943-1520	3584/26	943-1620	3585/26	26	1.55	39 37	1.25	31.75	9.3	4.2	178.70	151.90	107.00
943-1525	3584/34	943-1625	3585/34	34	1.95	49.53	1.65	41.91	12.2	5.5	233.70	198.65	139.00
943-1530	3584/40	943-1630	3585/40	40	2.25	57.15	1.95	49.53	14.3	6.5	274.95	233.70	164.60
943-1535	3584/50	943-1635	3585/50	50	2.75	69.85	2.45	62 23	17.9	8 1	343.70	292.15	205.78

HEADER CONNECTORS



FEMALE SOCKET CONNECTORS

Stock No.	Mfr's Type	No. of Pins	PER PKG. OF 4 1-24	5-24	25-99	100-Up
943-1207	FCC-110-10	10	11.20	8.80	8.32	6.80
943-1205	FCC-110-20	20	11.80	11.20	8.80	7.60
943-1204	FCC-110-26	26	14.40	13.80	11.00	9.40
943-1203	FCC-110-34	34	17.80	17.20	13.60	11.80
943-1202	FCC-110-40	40	21.00	20.40	16.00	13.80
943-1201	FCC-110-50	50	24.80	24.20	19.00	16.60

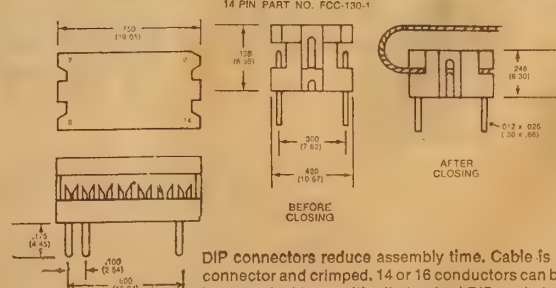
Female socket connector is designed to make non-permanent connections. Mates with all standard headers to disconnect then reconnect cable assembly. Will accept 28-30 stranded and solid connectors. Available with integral strain relief for Daisy Chain applications. Features greater flexibility and denser connector spacing. Patented off-set tine design insures gas tight terminations. Headers are mounted on board and are connecting with female socket connectors. Gold plated phosphor bronze contacts: UL-94VE-0 Flame Retardant Thermoplastic. Temp: −55°C to +105°C. Current rating: 1 Amp; Insulation resis. 5x10⁸ Ohms.

STRAIGHT HEADERS WITH LOCKING TABS

Stock No.	Mfr's Type Solder Term.	Mfr's Type Wire Wrap Term.	No. of Pins	EACH 1-4	5-19	20-99	100-Up
943-1215	FCC-163-10	.....	10	2.35	1.97	1.84	1.58
943-1220	FCC-163-20	.....	20	2.75	2.30	2.15	1.85
943-1225	FCC-163-28	.....	26	3.30	2.70	2.55	2.15
943-1230	FCC-163-34	.....	34	3.90	3.15	3.10	2.55
943-1235	FCC-163-40	.....	40	4.38	3.55	3.40	2.80
943-1240	FCC-163-50	.....	50	5.08	4.10	3.95	3.25
943-1243	.....	FCC-164-10	10	2.80	2.24	2.16	1.79
943-1245	.....	FCC-164-20	20	5.25	4.20	4.05	3.35
943-1250	.....	FCC-164-26	26	6.18	4.95	4.80	3.95
943-1255	.....	FCC-164-34	34	7.10	5.65	5.50	4.50
943-1260	.....	FCC-164-40	40	8.00	6.25	6.10	5.05
943-1265	.....	FCC-164-50	50	9.12	7.20	7.05	5.70

943Q1300 FCT 10 Press for connector with adapter ..... Ea. 225.00
943Q1310 FCT 60 Adapter to adapt presses to above connectors ..... Ea. 100.00

FCC-130 SERIES DIP CONNECTORS 14- AND 16-PIN

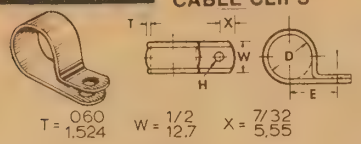


DIP connectors reduce assembly time. Cable is inserted into connector and crimped. 14 or 16 conductors can be terminated in seconds. Mates with all standard DIP sockets. Connectors have phospher-bronze contacts with gold over nickel plating. Body of connector is UL 94 VE-0 flame retardent thermoplastic. 14-pin is for 3580/14 flat cable; 16-pin for 3580/16 flat cable, see above. **Connectors are sold in packages of 4 only.**

Stock No.	Mfr's Type	Description	PER PKG. OF 4 1-4	5-24	25-99	100-Up
708-9800	FCC-130-14	14-Pin	5.60	5.00	4.40	3.80
708-9810	FCC-130-16	16-Pin	6.40	5.80	5.00	3.40
708-9820	FCT-30	Hand Tool	Each 27.56			

Cable Accessories, Wiring Duct and Lacing Tape

CABLE CLIPS



T = .060 1.524 W = 1/2 12.7 X = 7/32 5.55

NYLON

Stock No. 920-	Mfr Type	D	E	PRICE PER 100		
				1-24	25-99	100-Up
8940	8940	1/8	.360	3.11	2.48	2.07
8941	8941	3/16	.423	3.24	2.59	2.16
8942	8942	1/4	.457	3.38	2.70	2.25
8943	8943	5/16	.495	3.51	2.81	2.34
8944	8944	3/8	.529	3.65	2.92	2.43
8945	8945	7/16	.560	3.78	3.02	2.53
8946	8946	1/2	.592	3.92	3.13	2.61
8948	8948	5/8	.654	4.32	3.46	2.89
8950	8950	3/4	.783	4.73	3.78	3.16
8952	8952	1	.908	5.27	4.21	3.52

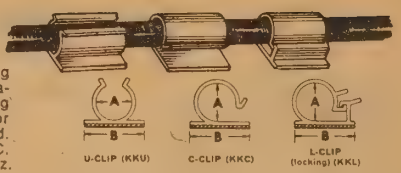
ALLIED CABLE ACCESSORIES

Ethyl cellulose: Meets MIL-242A, MIL Std. 242B(Ships), MS 3914(Ord). Temp. –40° to +185°F. **Nylon:** Meets MIL-Std.-24E; MS-30914(Ord); MIL-C-21565(NAS). MIL-P-17091-B; MIL-P-20693; MIL-P-17091A. 6 oz. each, pkg. 100.

CELLULOSE

Stock No. 920-	Mfr Type	D	E	PRICE PER 100		
				1-24	25-99	100-Up
8925	8925	1/8	.360	2.84	2.27	1.89
8926	8926	3/16	.423	2.97	2.38	1.98
8927	8927	1/4	.457	3.11	2.46	2.07
8928	8928	5/16	.498	3.24	2.59	2.16
8929	8929	3/8	.529	3.38	2.70	2.25
8931	8931	1/2	.592	3.65	2.92	2.43
8933	8933	5/8	.654	4.05	3.24	2.71
8935	8935	3/4	.783	4.73	3.78	3.16
8937	8937	1	.908	5.27	4.21	3.52

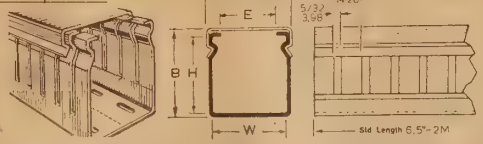
KWIK-KLIP



Offer convenient, secure fastening for a variety of electrical applications. Strip off protective backing and press in place permanently. For anchoring cable, tubing, pipe, rod. Constructed of strong, resilient PVC. KKL is locking type. Shpg. wt. 10 oz.

Stock No.	Mfr's Type	Diameter		Width x Length		PER PKG. OF 100		
		In	MM	In	MM	1-9	10-49	50-Up
911-2042	KKU-2	.125	3.17	.750x.750	19.05x19.05	14.60	12.41	10.42
911R2044	KKU-4	.250	6.35	.750x.750	19.05x19.05	16.59	14.09	11.89
911-2046	KKU-6	.375	9.52	.750x.750	19.05x19.05	18.55	15.75	13.25
911-2048	KKU-8	.500	12.70	1x1	25.4x25.4	20.55	17.49	14.70
911-2002	KKC-2	.125	3.17	.750x.750	19.05x19.05	14.63	12.43	10.97
911-2004	KKC-4	.250	6.35	.750x.750	19.05x19.05	16.56	14.08	12.42
911-2005	KKC-5	.312	7.93	.750x.750	19.05x19.05	17.53	14.90	13.14
911-2006	KKC-6	.375	9.52	.750x.750	19.05x19.05	18.53	15.75	13.89
911-2008	KKC-8	.500	12.70	1x1	25.4x25.4	15.33	10.79	8.59
911-2012	KKC-12	.750	19.05	1x1	25.4x25.4	29.33	23.45	20.99
911R2024	KKL-4	.250	6.35	.750x.750	19.05x19.05	17.57	14.93	13.17
911R2028	KKL-8	.500	12.70	1x1	25.4x25.4	22.10	18.78	15.48
911-2032	KKL-12	.750	19.05	1x1	25.4x25.4	31.80	27.03	22.75

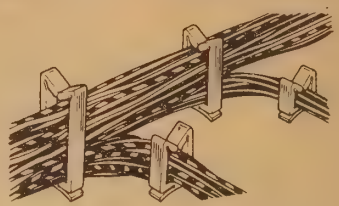
ELECTRO-DUCT PLASTIC WIRING DUCT



Withstands temperatures up to 150°F. Completely non-flammable, warp-proof and non-brittle. Temporary adhesive mounting assures easy and safe drilling alignment. Interlocking cover and channel design provides snap-on, non-slip assembly to eliminate vibration slippage. Snap-off plastic fingers permit enlarging slot for leadoffs of any size wire and/or wire bundles. Cover flange keeps lead-off wires with terminations attached, without deflecting the plastic fingers. Eliminates threading of wire through duct holes. CSA approved. **Sold only in multiples of 6.5 feet, (2 meters).** Gray color.

Stock No.	Mfr's Type	Nom. WxH In.	Dimensions (Inches)					Shpg. Wt. Lbs./ 100 Pcs.	Price per 6.5' Piece	
			B	H	C	W	E		1-9	10-Up
787-1010	ELVB1010	1x1	1 13/16	1	1 7/32	1	1/2	21	7.95	5.28
787-1020	ELVB1020	1x2	2 7/32	2	1 7/32	1	1/2	32	10.05	6.96
787-2010	ELVB2010	2x1	1 3/16	1	2 9/32	2	1 1/2	32	10.90	8.55
787-2020	ELVB2020	2x2	2 3/16	2	2 9/32	2	1 17/32	47	12.85	7.80
787-2030	ELVB2030	2x3	3 1/4	3	2 9/32	2	1 17/32	55	10.40	9.60
787-3020	ELVB3020	3x2	2 9/16	2	3 9/32	3	2 1/2	55	10.20	9.60
787-4030	ELVB4030	4x3	3 1/4	3	4 9/16	4	3 1/2	90	16.40	13.20

WIRE SADDLES



Strong, tough nylon saddles used to channel a group or bundle of wires over a given course. Have a pointed insert that is compressed and easily snapped into punched or drilled .187" diameter holes in a metal chassis where they lock firmly and permanently in place. May be mounted in any position; no tools needed.

Stock No.	Mfr's Type	Inside Height, Inches	Outside Height Inches	PER PKG. OF 100		
				1-9	10-49	50-Up
911-5091	WS-1N	.225	.510	4.16	3.32	2.77
911-5092	WS-2N	.450	.715	4.29	3.42	2.86
911-5093	WS-3N	.800	1.070	5.78	4.62	3.85
911-5094	WS-4N	1.120	1.390	6.25	5.00	4.17

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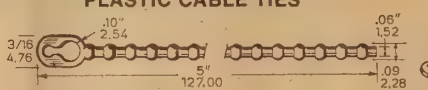
TWIST-LOK REUSEABLE PLASTIC TIES



Just slip in place. Hold bundles firmly. Reuseable white nylon. 4 lengths. .2 tc .8" bundles.

Stock No.	Mfr's Type	Approx. O'all Ht.	Wire Bundle Diam.	PRICE PER 100
920-7000	8982	.900"	.2-.3"	2.80
911-7010	TL-350	1.032"	.3-.4"	3.85
920-7020	8983	1.200"	.4-.5"	3.24
920-7030	8984	1.550"	.7-.8"	3.92

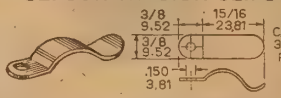
PLASTIC CABLE TIES



Bind cables into harness. 5" white nylon. Pkgs. of 100 only. 4 oz. per pkg.

920-8962. Type 8962. 1-24 ..... Each 3.10
25-99 ..... Each 2.48 100-Up ..... Each 2.07

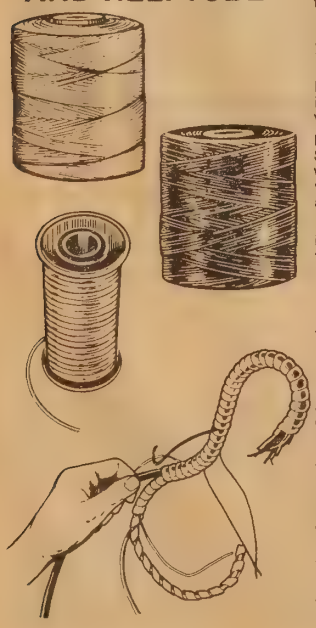
CELCON TENSION CLIPS



Strong, yet elastic, plastic clips easily fastened, hold cable, wire, tubing, panels, glass, signs. Black or white. Pkg. 100.

911-7050. Type 30-1. Price per 100 .....6.55

LACING TAPES AND HELI-TUBE



Nylon Lacing Tape: Flat-braided high-tenacity nylon yarn impregnated with micro-crystalline fungicidal wax or impregnations to meet military specifications. Avail. in 500-yard spools.

Polyester Lacing Tape: Flat-braided polyester yarn impregnated with special finishes to military specifications. Avail. 500-yd. spools.

Nylon Lacing Twine: Round twisted nylon fiber impregnated with microcrystalline fungicidal wax.

Finishes and coating for above: W—Wax, Mil Spec B. A microcrystalline fungicidal wax which exceeds military specifications, provides excellent knot retention and is suitable for either lacing or spot ties.

A—Synthetic Resin, Mil Spec E. Synthetic rubber-like resin formulated with fungicidal ingredients.

Nylon Flat Braided Tape: Provides wider contact area with insulation. More flexible and easier to apply. 500 yds. each.

Finishes for above: MW: Microcrystalline wax with a melting point above 130°F with a fungicide which does not contain either copper or mercuric materials. **AM:** A thermoplastic synthetic resin with a melting point above 350°F for use where a "wax free" type with good knot tying qualities is specified.

Heli-Tube Expandable Cable Harness: Plastic cable harness features strong gripping ability, excellent flexibility; protects against abrasion. Allows individual wire, taps of lead-offs to enter or break out of harness at any point. Made of clean, virgin resin. Wraps on like tape. Impermeable to moisture; resists chemicals, solvents; non-staining; non-toxic.

NYLON LACING TAPE MIL-T-43435 TYPE I

Stock No.	Mfr's Type	Tensile Str.		Color	Width		Finish	Quantity		EACH
		Lbs.	Kg.		In	MM		Yds.	M	
768-9107	805032W	50	22.7	Natural	.090	2.28	A	500	546.8	14.30
768-9106	805032B	50	22.7	Black	.090	2.28	A	500	546.8	13.25
768-9101	802534W	25	11.35	Natural	.062	1.57	W	500	546.8	11.50
768-9100	802534B	25	11.35	Black	.062	1.57	W	500	546.8	14.00
768-9109	805036W	50	22.7	Natural	.090	2.28	W	500	546.8	14.30
768-9108	805036B	50	22.7	Black	.090	2.28	W	500	546.8	16.40

POLYESTER LACING TAPE MIL-T-43335 TYPE II

768-9113	805058W	50	22.7	Natural	.090	2.28	A	500	546.8	13.30

NYLON LACING TWINE MIL-T-713D TYPE P

768-9117	807013W	70	31.78	Natural	.039	0.99	W	550	601.48	16.10
768-9116	807013B	70	31.78	Black	.039	0.99	W	550	601.48	17.70
768-9105	804814W	48	21.79	Natural	.029	0.73	W	750	820.2	16.10
768-9103	803215W	32	14.52	Natural	.025	0.63	W	1100	1202.96	16.10

NYLON FLAT BRAIDED TAPE

Stock No.	Mfr's Type	Tensile Str.		Width		Thickness		Finish	EACH
		Lbs.	Kg.	In	MM	In	MM		
708-4406	134WHI	30	13.62	1/16	1.58	.010	.254	MW	13.25
708-4408	136BLK	50	22.7	3/32	2.38	.014	.355	MW	14.20
708-4409	136WHI	50	22.7	3/32	2.38	.014	.355	MW	12.21
708-4416	143WHI	50	22.7	3/32	2.38	.014	.355	AM	11.36

HELI-TUBE EXPANDABLE CABLE HARNESS

Stock No.	Mfr's Type	O.D.		Description	Per 100' Spool			
		In	MM		1-9	10-24	25-49	50-Up
872-3301	HT1/8C	1/8	3.175		4.54	3.63	3.03	2.57
872R3303	HT1/4C	1/4	6.350	Clear	8.38	6.80	5.78	4.99
872-3305	HT3/8C	3/8	9.525	Polyethylene	13.10	10.48	8.75	7.49
872-3307	HT1/2C	1/2	12.70		15.67	12.54	10.47	8.89
872-3373	HT1/4UR	1/4	6.350	Polyethylene	9.50	7.60	6.55	5.67
872-3377	HT1/2UR	1/2	12.70	(Ultraviolet Res.)	13.29	11.70	10.58	9.95
872-3323	HT1/4FR	1/4	6.350	White	13.54	12.10	11.60	10.79
872-3327	HT1/2FR	1/2	12.70	Rulan (Fire Res.)	32.16	28.75	27.54	25.62

Stock No.	Mfr's Type	O.D.		Description	Per 50' Spool			
		In	MM		1-9	10-24	25-49	50-Up
872-3381	HT1/2UR-G	1/2	12.70	Gray Polyethylene	14.88	12.74	11.85	11.14

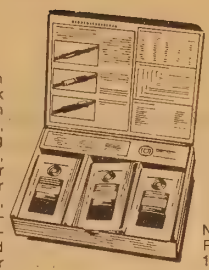
Tubing and Heat Guns

NO-HEAT SHRINK TUBING



- **No Tools Required**
- **Military Specification MIL-I-85080 (AS)**

U.L. approved no-heat shrink tubing eliminates the risk of damage from heat guns, ovens, and torches. Chemically processed "No-Heat" shrink tubing is pre-expanded, cut to length, and conveniently packaged in cans with resealable lids for immediate usage. Just open container, slide tubing in place and watch it shrink! Durable and tough, the tubing is also flexible and won't crack or split. The shrink tubing is waterproof, resistant to chemicals and solvents, plus non-corrosive so it's ideal for many applications like wire and cable splices and terminals, connector and terminal strain reliefs, tool handles, underground connections, environmental protection, shipboard wiring, missile systems, instrumentation and space environments. Flame retardant tubing withstands heat range of −35° to +105°C. Material Grade: Electronics Rated PVC tubing. Supplied at approximately twice the recovered diameter but can be stretched up to 3 times its final diameter. See table at right for specifications.



Stock No.	Black EGM-	Stock No.	Clear EGM-	Max. Recov. I.D.	Nom. Recov. Lgth.	Qty. Per Pkg.	PRICE PER CAN 1-9	10-49	50-99	100-Up
816-1000	0031-010-120CC	816-1005	0031-010C-120CC	1/32"	1"	120	2.03	1.80	1.50	1.25
816-1010	0062-010-160CC	816-1015	0062-010C-160CC	1/16"	1"	160	3.08	2.90	2.40	2.00
816-1020	0093-010-150CC	816-1025	0093-010C-150CC	3/32"	1"	150	3.50	3.25	2.70	2.25
816-1030	0125-015-100CC	816-1035	0125-015C-100CC	1/8"	1 1/2"	100	4.25	3.90	3.25	2.70
816-1040	0187-015-100CC	816-1045	0187-015C-100CC	3/16"	1 1/2"	100	5.10	4.70	3.90	3.25
816-1050	0250-020-050CC	816-1055	0250-020C-050CC	1/4"	2"	50	3.50	3.25	2.70	2.25
816-1060	0375-020-025CC	816-1065	0375-020C-025CC	3/8"	2"	25	2.98	2.75	2.30	1.90
816-1070	0500-040-012CC	816-1075	0500-040C-012CC	1/2"	4"	12	3.50	3.30	2.75	2.30
816-1080	0750-060-005CC	816-1085	0750-060C-005CC	3/4"	4"	5	3.63	3.40	2.80	2.35
816-1090	1000-060-003CC	816-1095	1000-060C-003CC	1"	6"	3	3.40	3.10	2.60	2.15

NO-HEAT SHRINK TUBING KITS

No-Heat Shrink Tubing protects, insulates wire connections, cables, splices, terminals and components. Pre-expanded, cut to length. Packaged for convenience, just expose to air. The compact "mini kit" contains 12 different sleeve sizes from 1/32" id. through 3/4" id. Material grade: Electronics Rated PVC Tubing. Withstands a heat range of −35° to +105°C.

816-1200. EMK-100. 1-9 ..... **Each 11.25** **10-Up** ..... **Each 7.50**

ATFT TEFLON EXTRUDED FLEXIBLE TUBING



High resistance to fatigue and repetitive stresses. High temperature "Class C" thin, flexible insulation will not melt or flow. Spaghetti extruded from pure Teflon TFE fluorocarbon resins — free of contaminants, stresses; uniform density, color. Nonflammable; unharmed by soldering irons; moistureproof; chemically inert. Dielectric strength: 500-1000 V/mil. No variation of electrical properties. −65°C to +260°C. 60 Hz to 100 MHz. Meets **MIL-I-22129C. AMS 3651B, 3655, 3653; Fed. Spec. P-403A.** Natural color. See listings below. Av. wt. 5 oz.

ATFT-200 THIN-WALL TEFLON TUBING

Stock No.	Allied No.	Equiv. Type	AWG Size	Nominal I.D. In.	Nominal I.D. MM	Nominal Wall In.	Nominal Wall MM	100' COIL 1-4	100' COIL 5-Up
708-4930	ATFT-200/30	TFT-200	30	.012	.30	.009	.23	13.30	10.64
708-4926	ATFT-200/26	TFT-200	26	.018	.46	.010	.25	10.50	8.40
708-4924	ATFT-200/24	TFT-200	24	.022	.56	.010	.25	11.48	9.18
708R4922	ATFT-200/22	TFT-200	22	.027	.69	.010	.25	13.48	10.78
708-4920	ATFT-200/20	TFT-200	20	.034	.86	.012	.30	10.89	9.32
708-4918	ATFT-200/18	TFT-200	18	.042	1.07	.012	.30	12.73	10.90
708-4916	ATFT-200/16	TFT-200	16	.053	1.35	.012	.30	15.20	13.01
708-4914	ATFT-200/14	TFT-200	14	.066	1.68	.012	.30	16.72	14.31
708-4911	ATFT-200/11	TFT-200	11	.095	2.41	.012	.30	22.55	19.31
708-4910	ATFT-200/10	TFT-200	10	.106	2.69	.012	.30	24.35	20.85
708-4907	ATFT-200/7	TFT-200	7	.148	3.76	.015	.38	41.73	35.74

ATFT-250 STANDARD-WALL TEFLON TUBING

Stock No.	Allied No.	Equiv. Type	AWG Size	Nominal I.D. In.	Nominal I.D. MM	Nominal Wall In.	Nominal Wall MM	100' COIL 1-4	100' COIL 5-Up
708-5024	ATFT-250/24	TFT-250	24	.022	.56	.012	.30	14.05	11.24
708-5022	ATFT-250/22	TFT-250	22	.027	.69	.012	.30	10.44	8.94
708-5020	ATFT-250/20	TFT-250	20	.034	.86	.016	.41	14.33	12.27
708-5014	ATFT-250/14	TFT-250	14	.066	1.68	.016	.41	21.91	18.76
708-5012	ATFT-250/12	TFT-250	12	.085	2.16	.016	.41	26.43	22.55

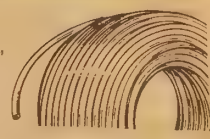
TYPE APIF-30 VINYL-IMPREGNATED FIBERGLASS TUBING

Tough and pliable — provides maximum electrical characteristics, chemical resistance, heat stability, abrasion resistance. Fiberglass base sleeving, coated with plastic insulation. For continuous operation up to 130 C. Will not support combustion. Insulation will not peel, crack or lose dielectric values. Conforms to **MIL-I-3190B, Grade B.** Av. wt. 2 lbs.



Stock No.	Allied No.	Equiv. Type	AWG Size	Wall Thickness Max. In.	Wall Thickness Max. MM	Wall Thickness Min. In.	Wall Thickness Min. MM	Approx. I.D. In.	Approx. I.D. MM	100' COIL
708-4514	APIF-130/14	PIF-130	14	.028	.71	.020	.51	.066	1.68	12.25
708-4510	APIF-130/10	PIF-130	10	.028	.71	.020	.51	.106	2.69	14.38
708-4506	APIF-130/06	PIF-130	6	.028	.71	.020	.51	.166	4.21	12.71
708-4502	APIF-130/02	PIF-130	2	.036	.91	.026	.66	.234	5.94	19.36

APVC-105 PLASTIC TUBING



ASTM D-876, D-9222, MIL-I-631D Type F, Form U, Grade C, Class 1, Category 1 . . . general-purpose polyvinylchloride tubing rated for temperatures not exceeding 105°C. High dielectric strength; resistant to abrasion, heat, oil, chemical corrosion and fungi. Indefinite shelf-life. Highly flexible under all environmental conditions. In black or clear. U.L. listed. Furnished in 100' coils.

Stock No. Clear	Stock No. Black	Mfr's Type-Size	I.D.	Wall Thk.	100' Coil EACH
708-4728	.....	APVC105-24	.022	013	2.95
708-4720	.....	APVC105-22	.027	012	2.95
708-4712	708-4710	APVC105-20	.034	.016	3.18
708-4703	708-4701	APVC105-18	.042	016	3.45
708-4696	708-4694	APVC105-16	.053	016	3.70
708-4687	708-4685	APVC105-14	066	016	3.20
708-4680	708-4678	APVC105-12	085	.016	3.43
708-4672	708-4670	APVC105-10	.106	016	4.03
708-4663	708-4661	APVC105-8	133	020	5.23
708-4657	708-4655	APVC105-6	.166	020	6.00
708-4650	708-4648	APVC105-4	.208	.020	6.83
708-4642	708-4640	APVC105-2	.263	020	8.00
.....	708-4604	APVC105-9/16	.312	025	11.83
708-4611	708-4610	APVC105-3/8	.375	025	14.05
.....	708-4615	APVC105-1/2	500	030	12.63
.....	708-4621	APVC105-5/8	625	035	12.19

ESTIMATOR CHART FOR CUT WIRE AND TUBING PIECES

For lengths greater than six inches multiply no. of feet required and divide no. of pieces per 1000' by same factor.

Length Inches	No. of Feet Required per 1,000 pieces	No. of pieces in 1,000-Ft.	Length Inches	No. of Feet Required per 1,000 pieces	No. of pieces in 1,000-Ft.
¼	20.9	48,000	3¼	270.9	3,700
½	41.7	24,000	3½	291.7	3,450
¾	62.5	16,000	3¾	312.5	3,200
1	83.4	12,000	4	333.4	3,000
1¼	104.2	9,600	4¼	354.2	2,800
1½	125.0	8,000	4½	375.0	2,650
1¾	145.9	6,900	4¾	395.9	2,525
2	166.7	6,000	5	416.7	2,400
2¼	187.5	5,350	5¼	437.5	2,275
2½	208.4	4,800	5½	458.4	2,175
2¾	229.2	4,400	5¾	479.2	2,075
3	250.0	4,000	6	500.0	2,000

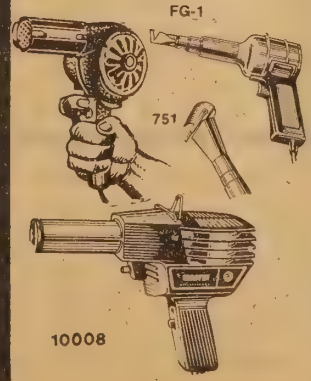
AFIT® SHRINKABLE TUBING KIT



Engineering or prototype sampler kit. Contains a variety of sizes and colors of Allied FIT shrinkable tubing types. Packaged in a handy compartmented plastic case. FIT tubings supplied in the expanded state. Application of heat shrinks the tubing to a skin-tight covering. Useful in lab, experimenter's shop. Wt. 2 lbs.

708R3775 ..... **Each 29.23**

HEAT ACCESSORIES



HEAT GUN BLOWERS. Delivers instant heat up to 1000°F (538°C), no danger of an open flame. Use with shrinkage tubing, forming plastics, etc. **Type HG-501** produces heat from 500 to 750°F (260-399°C). **Type HG-751** from 750 to 1000°F (399-538°C). Both with 8-ft. neoprene cord. 115VAC. UL listed

861R1604. Type HG-501 Heat Gun. 14 amps. 5 lbs. ..... **Each 58.75**

861-1605. Type HG-751 Heat Gun. 20 amps. 5 lbs. ..... **Each 69.45**

861-1660. Type A-160-HG Shrink Tubing Attachment for lengths of tubing up to ¾" in diameter ..... **Each 7.50**

861-1670. Type A-170-HG Shrink Tubing Attachment for lengths of tubing from ¾" to 2" in diameter ..... **Each 7.50**

"MASTER-MITE" FLAMELESS HEAT GUN. Type 10008. Three snap-in heat range nozzles available: silver (incl.) provides 650°F (343°C) for most shrinkables; optional blue nozzle provides 500°F (260°C) for Mylar*; optional black nozzle provides 800°F (427°C) for Teflon* Brushless-type shaded-pole motor rated 3300 rpm. Air cooled barrel and 3-cond. ground cord for max. safety. Draws 4 5 amps of power Deflector adaptor, silver nozzle 7-ft cord incl 120VAC. UL listed

861R1610. Shpg. wt. 3 lbs. ..... **Each 47.55**

861-1615. Type 20012 Nozzle. 500 F (260 C). Wt. 8 oz. ..... **Each 10.00**

861-1620. Type 20014 Nozzle. 800°F (427°C). Wt. 8 oz. ..... **Each 10.00**

MINIATURE FIT® GUN. Model FG-1. Electric motor driven unit delivers high volume of air to nozzle. Replaceable heat elements. Three-position switch. Use as a bench or hand unit. Rated 7 amps, 115VAC. Temp.: 175°C (347°F) without adapter; 205°C (401°F) with adapter: 203°C (446 F) with tubing reflector. With all accessories.

708-3770 ..... **Each 75.38**

See Page 2 for the Allied Electronics Facility Nearest You

Allied Shrinkable Tubing

ALLIED SHRINKABLE PRODUCTS

• Irradiated Polyolefin • Irradiated Polyvinyl Chloride • Surface-Irradiated Polyolefin • Semi-Rigid Kynar™

AFIT Type	Characteristics
AFIT-105	Irradiated Polyvinyl Chloride (PVC): flexible and resistant to abrasion. Good insulation properties. Color: Black only.
AFIT-221	Irradiated Polyolefin: flexible, abrasion resistant, non-flammable. Available from stock in black, red, white.
AFIT-300	Surface irradiated Polyolefin: outer wall shrinks, inner wall melts. Moistureproof, high mechanical strength.
AFIT-350	Semi-rigid Kynar: non-flammable tough fluorocarbon, high temperature solvent resistant. Non-flammable, won't cold-flow or melt. Color: clear.



AFIT®-221 POLYOLEFIN SHRINKABLE TUBING

- **Shrinks 50% (2:1 Ratio) with 5% Longitudinal Shrinkage**
- **Irradiated, Thermally Stable, Modified Polyolefin Base**
- **Will Not Cold-Flow or Melt, but Retains Form Stability**
- **Available in a Wide Range of Colors and Sizes**

Replaces FIT-275. Shrinks (2:1) to *Recovered Inside Diameter in just 7 seconds. An all-purpose polyolefin extruded tubing in an expanded form. Slips over irregularly shaped material. When temperature of approx. 275°F is applied for 7 seconds, it returns to predetermined size. *Select color desired, read down column for size to complete Stock No.*

POLYOEFIN SHRINKABLE TUBING ASSORTMENTS

FIT-221 Packaged Assortments. 6" lengths, assorted colors. Wt. ½ lb.

708R3901. FIT-221MS1.
3/64" through 3/16". (30 lengths) ..... **Each 11.50**

708R3902. FIT-221MS2. ¼" through ¾".
(16 lengths) ..... **Each 15.38**

4-FOOT LENGTHS (Av. shpg. wt. 1½ lbs.)

Size	Stock No.	Black	Red	White	Allied No.	Equiv.	Min. I.D. In.	Min. I.D. MM.	Recov. I.D.* In.	Recov. I.D.* MM.	Wall Thick. In.	Wall Thick. MM.	Lgts. Per Box	PER BOX
1/16"	708	-3916	.....	.....	AFIT-221	FIT-221	.063	1.57	.031	.78	.017"	.43	25	18.77
3/32"	708	-3924	.....	.....	AFIT-221	FIT-221	.093	2.36	.046	1.17	.020"	.51	25	21.78
1/8"	708	-3931	-3932	-3933	AFIT-221	FIT-221	.125	3.18	.062	1.57	.020"	.51	25	23.01
3/16"	708	-3939	.....	-3941	AFIT-221	FIT-221	.187	4.75	.093	2.36	.020"	.51	25	27.97
1/4"	708	R3947	.....	-3949	AFIT-221	FIT-221	.250	6.35	.125	3.18	.025"	.64	25	35.39
3/8"	708	-3955	.....	.....	AFIT-221	FIT-221	.375	9.53	.187	4.75	.025"	.64	25	39.43
1/2"	708	-3963	.....	.....	AFIT-221	FIT-221	.500	12.70	.250	6.35	.025"	.64	5	13.30
3/4"	708	-3971	.....	.....	AFIT-221	FIT-221	.750	19.05	.375	9.53	.030"	.64	5	11.92
1"	708	-3979	.....	.....	AFIT-221	FIT-221	1.000	25.40	.500	12.70	.035"	.89	5	16.67

6-INCH LENGTHS (Av. shpg. wt. 4 oz.)

Size	Stock No.	Black	Red	White	Allied No.	Equiv.	Min. I.D. In.	Min. I.D. MM.	Recov. I.D.* In.	Recov. I.D.* MM.	Wall Thick. In.	Wall Thick. MM.	Lgts. Per Box	PER BOX
3/64"	708	-3904	.....	-3906	AFIT-221	FIT-221	.046	1.17	.023	.58	.016	.51	40	7.65
1/16"	708	-3912	-3913	-3914	AFIT-221	FIT-221	.063	1.57	.031	.78	017	.43	36	7.65
3/32"	708	-3920	-3921	-3922	AFIT-221	FIT-221	.093	2.36	.046	1.17	.020	.51	32	7.65
1/8"	708	R3927	-3928	-3929	AFIT-221	FIT-221	.125	3.18	.062	1.57	.020	.51	28	7.65
3/16"	708	R3935	-3936	-3937	AFIT-221	FIT-221	.187	4.75	.093	2.36	.020	.51	24	7.65
1/4"	708	R3943	-3944	-3945	AFIT-221	FIT-221	.250	6.35	.125	3.18	.025	.64	20	7.65
3/8"	708	-3951	-3952	-3953	AFIT-221	FIT-221	.375	9.53	.187	4.75	.025	.64	16	7.65
1/2"	708	-3959	-3960	.....	AFIT-221	FIT-221	.500	12.70	.250	6.35	.025	.64	14	7.65
3/4"	708	-3967	.....	.....	AFIT-221	FIT-221	.750	19.05	.375	9.53	.030	.64	12	7.65
1"	708	-3975	.....	.....	AFIT-221	FIT-221	1.000	25.40	.500	12.70	.035	.89	8	7.65



Shrink when Heated to 275°F to Form a Rigid, Permanent Encapsulation

When heated, shrink to form permanent encapsulation without molding, potting, special tools. Supplied at "Min. I.D.", shrinks to "Recov. I.D." when heated to 275°F. *Pkg. of 25 only.* 6 oz..

MOLDED AFIT®-CAPS

Stock No.	Allied No.	Alpha Equiv.	Min. I.D. In.	Min. I.D. MM.	Recov. I.D. In.	Recov. I.D. MM.	Wall Thick. In.	Wall Thick. MM.	Nom. Lgth. In.	Nom. Lgth. MM.	Color	PER PKG.
708-3722	ACAP-22	CAP-22	.250	6.35	.120	3.05	.050	1.27	1.15	29.21	Black	22.78

10

For permanent, moistureproof insulation of components, cables, splices, etc. When a temperature of 275°F is applied, outer wall shrinks while the inner wall melts and flows, eliminating voids and providing moistureproof encapsulation. Supplied at "Min. I.D." size; shrinks to "Recov. I.D." with use of hot air gun, radiant heat, hot liquids. *Indicates heavy-walled tubing for use where much meltable material is required. Color coded by size. *Available in 4-foot lengths or 6-inch lengths.* Shpg. wt.: 4-ft. *lengths,* 1½ lbs.; 6-in., 4 oz.



AFIT®-300 SURFACE-IRRADIATED POLYOLEFIN TUBING

- **Outer Wall Shrinks at 275°F while Inner Wall Melts and Flows**
- **Provides a Tough, Moistureproof Encapsulating Jacket**
- **Excellent for Encapsulation of Components, Electrical Cable Junctions and Splices, as a Mechanical or Vibration Shield**

Size	Color	Min. I.D. In.	Min. I.D. MM.	Recov. I.D. In.	Recov. I.D. MM.	Wall Thick. In.	Wall Thick. MM.	Allied No.	Equiv.	4-FOOT LENGTHS Stock No.	4-FOOT LENGTHS Lengths Per Pkg.	4-FOOT LENGTHS PER PKG.	6-INCH LENGTHS Stock No.	6-INCH LENGTHS Lgths. Per Box	6-INCH LENGTHS PER BOX
1/8"	Brown	.125	3.18	.023	.58	.038	.97	AFIT-300	FIT-300	708-4110	25	64.06	708-4105	14	9.90
3/16"	Slate	.187	4.75	.060	1.52	.043	1.09	AFIT-300	FIT-300	.....	....	.....	708-4115	16	9.90
1/4"	White	.250	6.35	.080	2.03	.047	1.19	AFIT-300	FIT-300	.....	....	.....	708-4125	10	9.90
3/8"	Red	.375	9.53	.135*	3.43	.050	1.27	AFIT-300	FIT-300	.....	....	.....	708-4145	8	9.90
1/2"	Blue	.500	12.70	.195	4.95	.055	1.40	AFIT-300	FIT-300	708-4160	5	25.60	708-4155	6	9.90
3/4"	Yellow	.750	19.05	.313	7.95	.065	1.65	AFIT-300	FIT-300	.....	.....	.....	708-4165	4	9.90
3/10"	Blue	.300	7.62	.050	1.27	.100"	2.54	AFIT-300	FIT-300	.....	....	.....	708-4135	4	9.90

IRRADIATED PVC FLEXIBLE TUBING ASSORTMENTS

FIT-105-MS-1 Assortment. Contains ten 6" lengths each of six sizes from 3/64" through ¼". Wt. ½ lb. 60 pieces.
708R3801 ..... Each 12.88

FIT-105-MS-2 Assortment. Contains ten 6" lengths each of four sizes from 3/8" through 1". Wt. ½ lb. 40 pieces.
708-3802 ..... Each 13.54



AFIT®-105 IRRADIATED VINYL FLEXIBLE TUBING

Provides snug flexible insulation. Excellent for insulation over splices. Supplied at "Min. I.D." size; shrinks to *"Recov. I.D." size in only 7 seconds when heated to 325°F. Available from stock in Black. Av. shpg. wt. per 100-feet coil, 1½ lbs. Inquire for prices on larger quantities or other colors than those shown in table below.

Size	Min. I.D. In.	Min. I.D. MM.	Recov. I.D.* In.	Recov. I.D.* MM.	Wall Thick. In.	Wall Thick. MM.	Allied Type	Equiv.	Stock No.	Wt., Lbs.	Per 25' Coil	Stock No.	Wt., Lbs.	Per 100' Coil
3/64"	.046	1.17	.023	.58	.020	.51	AFIT-105	FIT-105	708-3804	.1	6.23	.....	.....	.....
1/16"	.062	1.57	.031	.78	.020'	.51	AFIT-105	FIT-105	708R3810	.1	6.68	708-3813	.3	16.42
3/32"	.093	2.36	.046	1.17	.020	.51	AFIT-105	FIT-105	708-3817	.1	7.73	708-3820	.5	18.94
1/8"	.125	3.18	.062	1.57	.025	.51	AFIT-105	FIT-105	708R3823	.2	8.15	708R3827	1.1	20.06
3/16"	.197	5.00	.093	2.36	.025	.64	AFIT-105	FIT-105	708R3830	.3	9.95	708-3833	1.4	24.42
1/4"	.250	6.35	.125	3.18	.025	.64	AFIT-105	FIT-105	708R3837	.4	12.55	708-3840	1.4	30.86
3/8"	.375	9.53	.187	4.75	.030	.76	AFIT-105	FIT-105	708R3843	.5	13.98	708-3847	2.0	34.37
1/2"	.500	12.70	.250	6.35	.030	.76	AFIT-105	FIT-105	708R3850	.8	12.95	708-3853	4.5	38.71
3/4"	.750	19.05	.375	9.53	.035	.89	AFIT-105	FIT-105	708R3857	1.3	14.11	708-3860	5.0	51.90
1"	1.00	25.40	.500	12.70	.040	1.02	AFIT-105	FIT-105	708-3863	2.2	19.76	.....	.....	.....
1½"	1.50	38.10	.750	19.05	.045	1.14	AFIT-105	FIT-105	708-3867	3.9	31.05	.....	.....	.....
2"	2.00	50.80	1.00	25.40	.050	1.27	AFIT-105	FIT-105	708-3870	5.6	42.82	.....	.....	.....

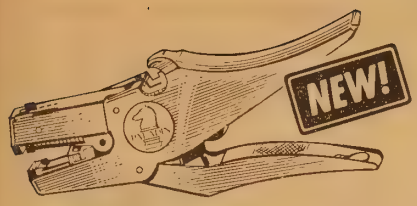


AFIT®-350 IRRADIATED KYNAR™ SHRINKABLE TUBING

Tough semi-rigid polyvinylidene fluoride that can be repeatedly flexed, bent or twisted without losing its mechanical or electrical strength. Withstands continuous operating temperatures of —55°F to +175°F. Supplied at Minimum Inside Diameter (Min. I.D.). Size shrinks to Recovery Inside Diameter (Recov. I.D.) when heated to 347°F. 2:1 shrinkage ratio. Longitudinal shrinkage only 5%. Nonflammable, will never cold flow or melt. Clear only. Av. shpg. wt.: 6" lengths, 4 oz.

Size	Min. I.D. In.	Min. I.D. MM.	Recov. I.D. In.	Recov. I.D. MM.	Wall Thick. In.	Wall Thick. MM.	Allied No.	Alpha Equiv.	6-INCH LENGTHS Stock No.	6-INCH LENGTHS Lgths. Per Box	6-INCH LENGTHS PER BOX
1/16"	.063	1.60	.031	.78	.010	.25	AFIT-350	FIT-350	708-4309	28	11.20
3/32"	.093	2.36	.046	1.17	.010	.25	AFIT-350	FIT-350	708-4315	24	11.20
1/8"	.125	3.18	.062	1.57	.010	.25	AFIT-350	FIT-350	708-4321	20	11.20
3/16"	.187	4.75	.093	2.36	.010	.25	AFIT-350	FIT-350	708-4327	16	11.20
1/4"	.250	6.35	.125	3.18	.012	.30	AFIT-350	FIT-350	708-4333	12	11.20
3/8"	.375	9.53	.187	4.75	.012	.30	AFIT-350	FIT-350	708-4339	8	11.20

Wire/Cable Tools and Wire Ties

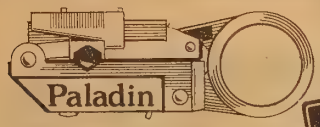


AUTOMATIC HAND WIRE STRIPPER

- Cuts and Strips Single or Multiple Conductor Cables
- Built-in Cutter, Self-Adjusting Stripping Jaws

PA1100. This innovative automatic hand wire stripper has a built-in sensor which enables it to strip #28 through #12 AWG wire, solid or stranded without adjustment. Its fiberglass re-inforced nylon body is virtually indestructible and electrically insulated from any shock hazards. The built-in self-sharpening cutter allows the operator to cut and strip in one operation with one tool. The front feed gives freedom of use in the tightest of spaces. The stainless steel, self-adjusting, stripping blades are industrially tough and built for up to 100,000 strips or more. Will do as many as six conductors simultaneously in bonded or molded cables. Stripping length: adjusts up to .7".

899-1100. PA1100 ..... **Each 29.15**
899-2101. PA2101. Replacement Stripping Jaw ..... **Each 12.50**





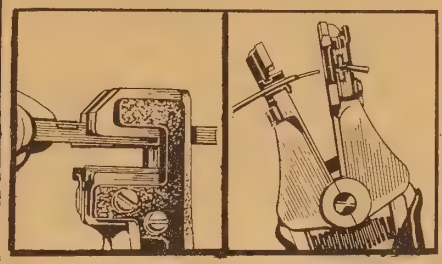
COAXIAL WIRE STRIPPER

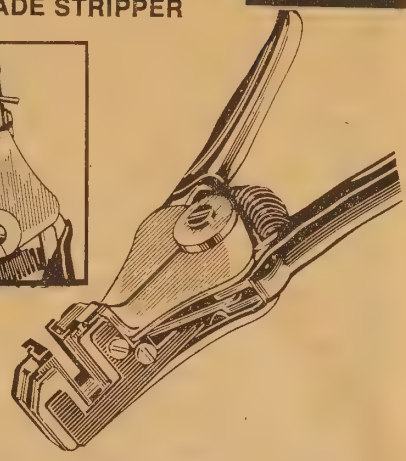
- Fast, Precise and Easy to Operate
- Lightweight — Weighs Only 1 Ounce

The coaxial wire stripper is fast, precise and easy to operate. Will do RG 58, RG 59, RG 122, RG 174 and RG 8281. This tool will strip every coax wire with an O.D. between .14 and .30 inches. It's small, 3.5" long, compact body allows the operator to use it in many areas which previously prevented post-stripping coax wires. Can be easily carried in a tool pouch or pocket and utilized in the field or in the plant. The removable cassette blades are rated for up to 10,000 strips and give clean, crisp cuts. Cassette number PA2200 (Red) will cut exposed braid to a length of .24(6mm), number PA2201 (Yellow) will cut exposed braid to a length of .48(12mm). Tool body is constructed of fiberglass reinforced nylon.

889-1204. PA1204. Coax Tool w/red cassette. For BNC & TNC conn. ..... **Each 29.15**
889-1208. PA1208. Coax Tool w/yellow cassette. For UHF conn. ..... **Each 29.15**
889-2200. PA2200. Replacement Red cassette ..... **Each 12.50**
889-2201. PA2201. Replacement Yellow cassette ..... **Each 12.50**

PLASTIC-BLADE STRIPPER





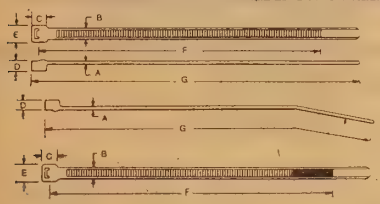
- Saves Time, Money And Labor
- Outstrips Old-Fashioned Metal Blades

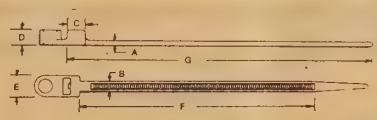
STRP-25. The secret of this wire stripper is in the plastic STILAN® blades. This wire stripper can remove insulation from wire without damaging or separating the conductors because the blade cuts through the insulation and deforms around the wire. Component failures due to nicked wires are eliminated. Strips any wire from #12 through #28 AWG — twisted pairs, multiple conductor cable, ribbon cable, TV twin-lead antenna wire, lamp cord, electrical cable, telephone wire and even hook-up wire two, three or more at one time. One strip gives neat, even leads. More than 25% faster than strippers with steel blades. Put any size wire anywhere between the blades—the plastic blade is grooveless, requires no positioning. Most insulating materials can be stripped with this stripper except Teflon and Kynar. Packaged with three sets of blades.
708-9600. 1-19 ..... **Each 39.95 20-99** ..... **Each 35.95 100-Up** ..... **Each 33.00**

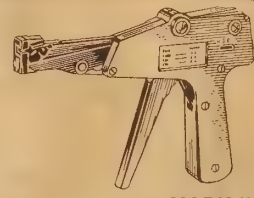
REPLACEMENT BLADE PACK



BLD-5. Convenient plastic dispenser wheel with five sets of blades. Change blades in seconds, just like an injector razor. Up to 50,000 strips on the more popular hook-up wire construction. Blades made of STILAN® plastic polymer material.
708-9610. 1-9.... **Each 11.95 10-Up** .. **Each 10.16**







MARK III TENSIONING TOOL

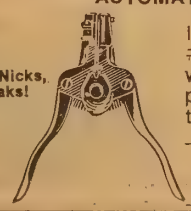
The Mark III tensioning tool is cast aluminum weighing only 10½ ounces, yet is rugged enough to stand up under assembly line conditions. Operators like the smooth action that tensions precisely as set, then relaxes tension for a fraction of a second before cut-off for positive tie locking. The entire operation takes a single stroke. Tension remains constant tie after tie; can't be changed accidentally. Small nose fits easily in tight places.
805-0100 ..... **Each 75.00**

WIRE TIES

Tying wire bundles and cables is easy and seconds-fast with these speed binding and harnessing wire ties. Their rounded ends and flexibility enables you to slip them easily under and around cables and harnesses. Gradually tapered tail inserts readily into the self-locking head. Uniform serrations along the length of the tie permit easy "pull-through" right down to the wire bundle—ready for final tensioning and cut-off for a neat, tight harness. One-piece molded of self-extinguishing, fungus-inert 6/6 Nylon, the wire tie remains continuously serviceable to 185°F (85°C). There are no loose heads and no metal barbs. Packed in moisture-tight bags of 100. Meets all applicable Military Specifications and are QPL listed. Color is natural.

Stock No.	Mfr's Type	Min. Ten. Str. Lbs./(Kgs)	Bundle Max. Dia. In./(MM)	Grayhill Fastraps Type	T & B Ty-Rap Cable Ties	Panduit Pan-Ty Sta-Strap	Military Specification Reference	Dimensions, Inches/(Millimeters) A Max.	B Max.	C Max.	D Max.	E Max.	F Min.	G Min.	PER PKG. 100 1-9	10-24	25-99	100-Up
805R0106	T18R	18 (8.16)	¾ (19.05)	6005-0400	.....	PLT1M	MS3367-4	.050 (1.27)	.115 (2.92)	.190 (4.83)	.150 (3.81)	.260 (6.60)	3.50 (88.90)	4.00 (101.60)	2.98	2.37	1.87	1.54
805R0107	T30R	30 (13.61)	1¼ (31.75)	6005-0550	TY-24M	PLT1.5M SST1.5M	MS3367-5	.055 (1.40)	.146 (3.71)	.220 (5.59)	.200 (5.08)	.260 (6.60)	4.11 (104.39)	5.5 (139.70)	3.87	3.17	2.47	2.02
805R0108	T50R	50 (22.68)	1¾ (44.45)	6005-0675	TY-25M	PLT2S SST2S	MS3367-1	.055 (1.40)	.190 (4.83)	.275 (6.99)	.240 (6.10)	.320 (8.13)	6.00 (152.40)	6.75 (171.45)	4.63	3.82	2.98	2.44
805-0140	T50I	50 (22.68)	2¾ (69.85)	6005-1100	TY-26M	PLT3S SST3S	MS3367-7	.005 (1.40)	.190 (4.83)	.275 (6.99)	.240 (6.10)	.350 (8.89)	9.95 (252.73)	11.0 (279.40)	9.19	7.72	6.02	4.88
805-0150	T50L	50 (22.68)	4 (101.60)	6005-1400	TY-28M	PLT4S SST4S	MS3367-2	.005 (1.40)	.190 (4.83)	.275 (6.99)	.240 (6.10)	.350 (8.89)	13.00 (330.20)	14.0 (355.60)	10.38	8.77	6.82	5.52
805-0109	T120R	120 (54.43)	4 (101.60)	6006-1400	TY-27M	PLT4H	MS3367-3	.083 (2.10)	.310 (7.87)	.375 (9.52)	.330 (8.38)	.535 (13.59)	11.88 (301.75)	14.0 (355.60)	17.49	15.92	11.01	8.90
805-0116	T50MR	50 (22.68)	1¾ (44.45)	6008-0675	TY-35M	PLC2S	.....	.055 (1.40)	.190 (4.83)	.275 (6.99)	.240 (6.10)	.320 (8.13)	6.00 (152.40)	6.75 (171.45)	6.83	6.37	4.44	3.61

AUTOMATIC WIRE STRIPPER/CUTTER



- No Nicks, Breaks!

Instantaneously strips wire ranging in size from #8 to #22 gauge. Cleanly removes insulation without nicking or breaking wire for smooth, professional quality work. Lightweight, yet extremely durable.

Stock No.	Mfr's Type	EACH 1-5	6-11	12-49	50-Up
910-1918	64-1918	9.95	9.25	8.75	8.25

3-WAY CRIMPING TOOL, TYPE 64-405



Crimps solderless terminals, cuts wire, strips insulation. With assorted terminals. Wt. 1½ lbs.
910-5903....**Each 2.29**

WIRE BENDING JIG TYPE 64-1960



Bends eyes, curves, spirals. For dozens of useful jobs. Accepts up to ¼" diameter wide. Shpg. wt. ¼ lbs.
910-5920.... **Each 1.99**

Wire Wrapping Tools and Supplies

SLIT-N-WRAP™ WIRE WRAPPING TOOLS FOR 0.025″ SQUARE POSTS

Slit-N-Wrap wiring is easy to use; up to four times faster than ordinary manual wrapping methods because no wire measuring or pre-stripping is required. The tools have a patented action which slits wire insulation while the tool is wrapping wire on 0.025″ (0.64mm) square posts. Connections are just as reliable as those made with conventional tools. Tests show Slit-N-Wrapped connections exceed MIL Spec requirements for pull-off, have low resistance (less than .003 ohm), and are gas-tight. Tools and bits are guaranteed to provide at least 10,000 reliable wraps before bit must be replaced.

P184 SERIES SLIT-N-WRAP TOOLS using Tefzel Insulated Wire. All tools use heavy (AWG #28) silverplated, Tefzel insulated wire. Tefzel properties include: .005″ (.15mm) thick insulation; good abrasion resistance; 150° C temperature rating; low dielectric constant (2.6); and high dielectric strength (over 400 volts/mil). Tefzel insulated wire should be considered for use in harsh environments, or when wrapping personnel cannot exert the care required in wrapping and routing polyurethane nylon insulated wire. Tools include two 50-foot (15.2 meter) spools of #28 gauge Tefzel insulated wire, a P183 chisel knife and forming tool, and complete instructions.

Type P184 Manual Wrapping Tool. Has partially knurled aluminum shaft and replaceable hardened steel bit. Size: 7.2″ (18.3 cm) long overall. Weighs only 1.2 ounces (34 grams). Shpg. wt. 1 lb.
977-5084. 1-4.....Each 29.50 5-9.....Each 26.55 10-Up.....Each 23.60

Type P184-4T Battery-Powered Tool. Same as above, but in easily-held battery-powered driver. Comes with NiCad rechargeable batteries and charger. Measures 9.7″ (24.6 cm) long overall; weighs 9.5 ounces (266 gm). Shpg. wt. 3 lbs.
977-5035. 1-4.....Each 80.00 5-9.....Each 72.00 10-Up.....Each 60.00

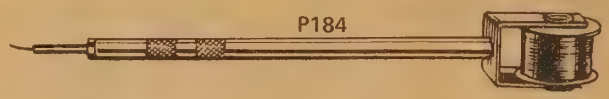
Type P184-4T1 AC-Powered Tool. Has pistol grip and trigger. Includes two-prong AC line cord, transformer and plug-in power cord. Measures 8.9″ (22.6 cm) long overall; weighs 8 ounces (226 gm). Shpg. wt. 3 lbs.
977-5086. 1-4.....Each 89.00 5-9.....Each 80.10 10-Up.....Each 66.75

REPLACEMENT BIT AND WIRE

Type P184A Replacement Bit. Slips into end of P184 series tool shaft; held in by friction-fit. Shpg. wt. 1 lb.
977-5090. 1-4.....Each 18.68 5-9.....Each 14.95 10-Up.....Each 13.95

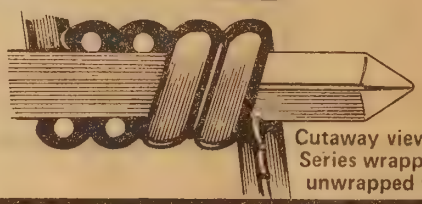
Replacement Wire. Tefzel insulated silverplated copper. AWG #28. In package of two 50-foot spools. Shpg. wt. 1 lb.

Stock No.	Mfr's Type	Color	PER PACKAGE			
			1-9	10-24	25-49	50-Up
977-5091	W28-6B	Red	7.82	4.18	3.95	3.82
977-5092	W28-6A	Green	7.82	4.18	3.95	3.82
977-5093	W28-6E	White	7.82	4.18	3.95	3.82
977-5094	W28-6F	Yellow	7.82	4.18	3.95	3.82



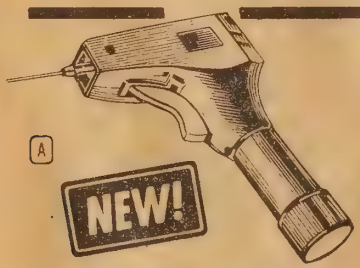






Cutaway view of P184 Series wrapped post, unwrapped wire.

WIRE WRAPPING TOOLS AND ACCESSORIES



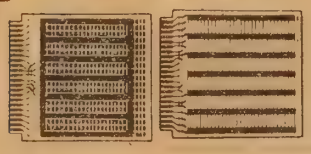
A WIRE WRAPPING TOOL

Battery-powered, for .025″ (0.63mm) square post. "Modified" wrap, positive indexing; anti-overwrapping device. Uses "C" size NiCad rechargeable batteries (not included; see page 153). Wt. 1 lb.
Type BW-630 Tool. For AWG #30 wire.
827-2630. 1-3..Ea. 34.95 4-Up..Ea. 29.10
Type BW-2628 Tool. For AWG #26-28.
827-2628. 1-3..Ea. 39.95 4-Up..Ea. 33.25
BT-30 Replacement Bit. AWG #30.
827-3630. 1-3..Ea. 5.43 4-Up..Ea. 3.95
BT-2628 Replacement Bit. #26-28.
827-3628. 1-3..Ea. 10.90 4-Up..Ea. 6.95



B DIP/IC INSERTION TOOL WITH PIN STRAIGHTENER

Type INS-1416. Easy to use. For 14- and 16-pin DIP integrated circuits. 1 lb.
827-1416. 1-3.....Each 4.80
4-Up.....Each 3.49

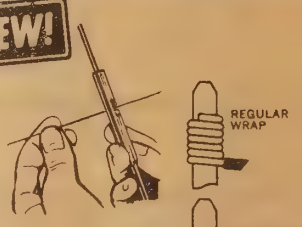


C HOBBY PC BOARD

Type H-PCB-1. Made of glass coated epoxy laminate with solder-coated 1-oz. copper pads. Provision for 22/44 two-sided edge connector, with contacts on standard .156″ spacing; non-dedicated for maximum flexibility. Contains matrix of .040″ dia. holes on .100″ centers. Component side contains 76 two-hole pads that can accommodate 6-40 pin DIP, as well as discrete components. Typical density: 18 of 14- or 16-pin DIPS. Components may be soldered directly to board, or intermediate sockets can be used. Two independent bus systems for voltage and ground on both sides of board. Component side also contains 14 individual busses running the full length; may be cut to length for particular applications. Size: 4 x 4½ x 1/16″ thick. 1 lb.
827-4001. 1-3.....Each 6.86
4-Up.....Each 4.99

D HOBBY WRAP TOOL

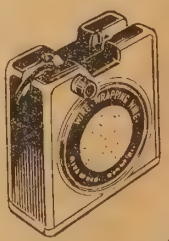
Wire-wrapping, stripping and unwrapping tool for AWG #30 wire on .025″ (0.63mm) square post. Shpg. wt. 1 lb.
Type WSU-30. Regular wrap.
827-1430. 1-3.....Each 9.55
4-Up.....Each 6.95
Type WSU-30M. Modified wrap.
827-1431. 1-3.....Each 10.93
4-Up.....Each 7.95



E WIRE DISPENSER

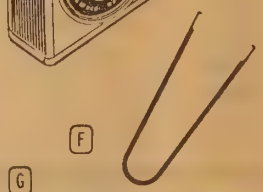
Cuts wire to length, strips 1″ of insulation. With 50-ft. roll of AWG #30 Kynar® wire-wrapping wire. Refillable. 1 lb.

Stock No.	Mfr's Type	Wire Color	EACH	
			1-3	4-Up
827-4030	WD-30-B	Blue	5.43	3.95
827-4031	WD-30-Y	Yellow	5.43	3.95
827-4032	WD-30-W	White	5.43	3.95
827-4033	WD-30-R	Red	5.43	3.95



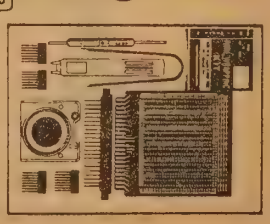
F DIP/IC EXTRACTOR TOOL

Type EX-1. Ideal for hobbyist or lab engineer. One-piece spring steel construction. Will extract all LSI, MSI and SSI devices with 8 to 24 pins. Shpg. wt. 1 lb.
827-4010. 1-3.....Each 2.05
4-Up.....Each 1.49



G WIRE WRAPPING KIT

Type WK-4B. Contains WSU-30M hobby wrap tool, WD-30B wire dispenser (with blue wire), two 14-pin DIPs, two 16-pin DIPS, H-PCB-1 hobby PC board, INS-1416 insertion tool, EX-1 extractor. Wt. 1 lb.
827-4004. 1-3.....Each 25.99
4-Up.....Each 20.00



See Page 2 for the Allied Electronics Facility Nearest You

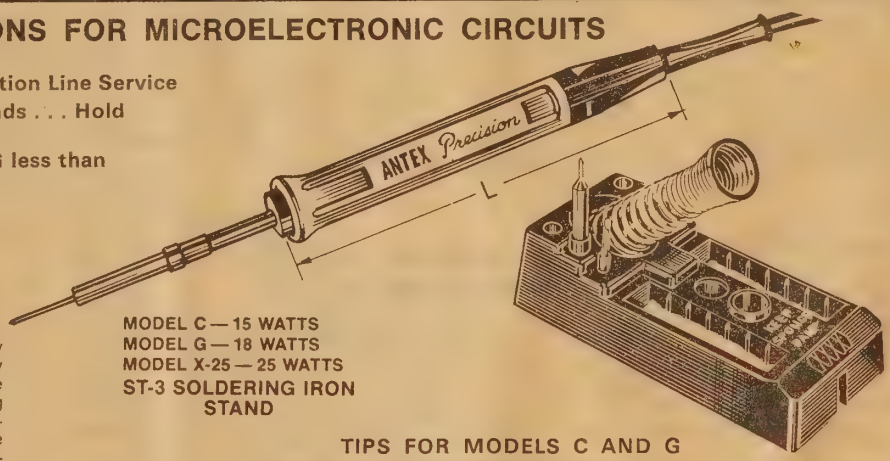
Precision Industrial Soldering Equipment

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SOLDERING IRONS FOR MICROELECTRONIC CIRCUITS

- **Long-lasting Elements—Designed for Production Line Service**
- **Heat to Full Operating Temperature in Seconds . . . Hold Constant Tip Temperature**
- **Low Current Leakage . . . for Models C and G less than 10 μA . . . for Model X25 less than 20 μA**
- **Safe for Delicate Components**
- **Maximum Heat Transfer Efficiency with Slide-on Replaceable Tips**
- **All Models Meet OSHA Standards for Safety**



MODEL C — 15 WATTS
MODEL G — 18 WATTS
MODEL X-25 — 25 WATTS
ST-3 SOLDERING IRON STAND

Soldering irons ruggedly built for long-lasting, heavy-duty service and production line use. Fast heat-up and recovery time, efficient heat transfer assure steady tip temperature and superior performance in all microelectronic soldering applications. Low current leakage and near-infinite insulation of heating elements from tip eliminate risk of damage to transistors, integrated circuits and other delicate components, and assure safety of the operator. Interchangeable tips in a variety of sizes and shapes cover a full range of soldering requirements. No set screws to freeze and break.

Three models, three power ranges: 15 watts, 18 watts, 25 watts; all feature comfortable handles of highest quality, char-proof, unfilled Melamine plastic. Cords are ultra-flexible for easy handling. For 110-120 V, 50-60 Hz AC.

SOLDERING IRONS

*Temperature depends on voltage. All models have 3-prong plug.

Stock No.	Mfr's Type	L. In.	Wt. Oz.	Power Watts	°F Temp. Range*	EACH 1-9	EACH 10-Up
728R0220	C-3	6½	3	15	650-750	11.04	9.46
728R0320	G-3	6½	3	18	650-700	11.59	9.85
728R0520	X25-3	8¾	4	25	650-700	13.57	11.94

REPLACEMENT ELEMENTS

728R0200	For Model C	Each 8.82
728-0300	For Model G	Each 8.82
728-0500	For Model X25-3	Each 9.80

SOLDERING IRON STAND

ST-3. Holds irons and solder spool. 8¼" high.
728R0400 Wt. 2 lbs. ..... Each **8.50**

TIPS FOR MODELS C AND G

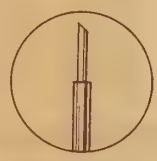
IRON-PLATED TIPS

Size In.	Stock No.	Fig.	Type	Stock No.	Fig.	Type	EACH 1-24	EACH 25-Up
3/64	728R1602	A	Spade 6-IS	728R1600	B	Chisel 6-IC	2.23	1.78
1/16	728R4605	A	Spade 46-IS	728R4600	B	Chisel 46-IC	2.23	1.78
3/32	728R1202	A	Spade 2-IS	728R1200	B	Chisel 2-IC	2.23	1.78
1/8	728R8605	A	Spade 86-IS	728-8600	B	Chisel 86-IC	2.23	1.78
3/16				728-1400	B	Chisel 4-IC	2.23	1.78
.012	728R1801	C	Needle 8X*				2.03	1.62

*Bare Copper.

NICKEL-PLATED TIPS

Size In.	Stock No.	Fig.	Type	Stock No.	Fig.	Type	EACH 1-24	EACH 25-Up
3/64	728-1606	A	Spade 6-NS	728-1604	B	Chisel 6-NC	1.53	1.22
1/16	728-4615	A	Spade 46-NS	728-4610	B	Chisel 46-NC	1.53	1.22
5/64	728-5605	A	Spade 56-NS	728-5600	B	Chisel 56-NC	1.53	1.22
3/32	728-1208	A	Spade 2-NS	728-1204	B	Chisel 2-NC	1.53	1.22
1/8	728-8615	A	Spade 86-NS	728-8610	B	Chisel 86-NC	1.53	1.22
3/16	728-1404	A	Spade 4-NS				1.53	1.22
3/32	728-1206		Pyramid 2-NP				1.53	1.22



(A) SPADE



(B) CHISEL



(C) NEEDLE

TIPS FOR MODEL X25

Stock No.	Mfrs Type	Size In.	Fig.	Tip Temp.	EACH 1-24	EACH 25-Up
728R1100	50	3/32	A	608°F	2.68	2.14
728-1151	52	3/16	A	.....	2.68	2.14

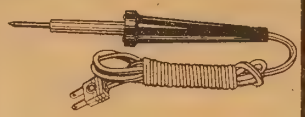
ALLIED ELECTRONICS HAS COMPLETE STOCKS OF SOLDERING EQUIPMENT FOR PRODUCTION LINE USE. . . . FOR FAST DELIVERY OF YOUR NEEDS, CONTACT YOUR NEAREST ALLIED OFFICE.

Soldering Irons and Accessories

"MARKSMAN" SOLDERING IRON

MODEL SP-23 FEATHERWEIGHT 25-WATT PENCIL IRON. Features long-reach stainless steel barrel. Thin, nickel-plated removable tip. Excellent for detailed work. Develops 750°F. For 115 VAC. Shpg. wt. 8 oz.

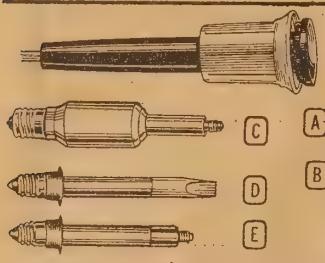
984R2423 ..... Each 10.45



TIPS FOR SP23

984-2425. Type MT1 ..... Each 2.12
984-2427. Type MT3 ..... Each 2.12

INTERCHANGEABLE SOLDERING COMPONENTS





HANDLE, HEATING UNITS AND SCREW-ON TIPS

- "Cool-Grip" Handle
- 3 Different Heating Elements
- Thread-On Copper Alloy Tips
- A Complete, Low-Cost Workshop

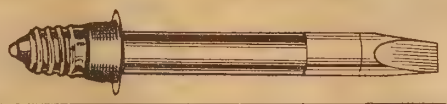
Choose the special soldering device that meets your needs. Industrial-quality interchangeable solder tools change your iron as easily as you'd change a light bulb! Select the heating unit or accessories you need for the job you're doing—or buy them all for a complete low-cost solder workshop. "Cool-grip" polypropylene handle is lightweight and easy to use. The three different long-life heating units screw into it easily—no tools required. The thread-on copper alloy tips are of the highest quality and each is specially designed for a particular job (light, medium and heavy duty—sold in packages of three only). U.L. Listed.

Stock No.	Mfr's Type	Fig.	Description	Watts	EACH
910R5928	64-2080	A	Cool-grip Soldering Handle		2.99
910R5929	64-2081	E	600°F to 650°F Heating Unit	27	2.99
910R5930	64-2082	D	approx. 800°F Heating Unit	33	4.79
910R5933	64-2083	C	approx. 900°F Heating Unit	45	5.79
910R5934	64-2084	B	Light, Medium, Heavy-Duty Tips		Pkg. 3/2.39

Thread-in tips can be used with above heating units.

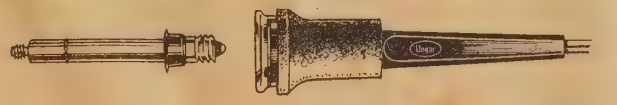
Stock No.	Mfr's Type	Description	Temperature	Watts	EACH 1-9	EACH 10-49	EACH 50-Up
972R0535	535S	For 1/8" thread-in tips	600-650°F	27	6.25	4.17	3.60
972R1235	1235S	For 1/8" thread-in tips	700-750°F	42	7.55	5.03	4.53
972R4035	4035S	For 1/8" thread-in tips	800-850°F	50	10.12	6.75	6.08
972-4045	4045S	For 3/16" thread-in tips	800-850°F	50	10.12	6.75	6.08

HEATING UNITS WITH INTEGRAL TIPS



Stock No.	Mfr's Type	Description	Temperature	W.	Length In.	Length MM	EACH 1-9	EACH 10-49	EACH 50-Up
972R4033	4033S	Long Taper Chisel, iron clad	850-1000°F	50	2 15/16	74.6	10.37	6.92	6.23
972-4039	4039S	Short Taper Chisel, iron clad	850-1000°F	50	2 5/8	66.7	10.37	6.92	6.23
972-1233	1233S	Long Taper Chisel, copper	750-800°F	42	2 15/16	74.6	7.80	5.20	4.68

STANDARD SOLDERING IRON OUTFIT

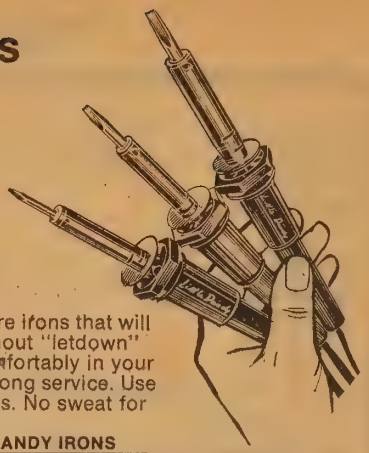


- Interchangeable Handle, Tips and Heater Units
- Lightweight and Perfectly Balanced for Fatigue-Free Use
- For Production Line, Servicing, and Research Lab

Model 7070. Versatile modular soldering iron includes Type 776 handle and two-wire cord. Type 1237-S high-heating element (42 watts — 750° to 800° F), three thread-on tips (pencil, chisel and pyramid). Comfortable polypropylene handle with cork grip. Octagon washer prevents rolling. U.L. Listed. For 120 volts. AC-DC. Shpg. wt. 1 lb.

972R7070 1-9 ..... Each 10.02
10-49 ..... Each 9.02 50-Up ..... Each 8.02

LITTLE DANDY® MINIATURE IRONS



- Three Basic Sizes to Choose From
- Wattage From 20 to 50 Watts
- Paragon Plated Tip

Here's an economy-line of miniature irons that will stand up to rugged treatment without "letdown" performance. Easy to use, fits comfortably in your hand, and gives you unbelievably long service. Use for custom jobs or production runs. No sweat for Little Dandy Irons!

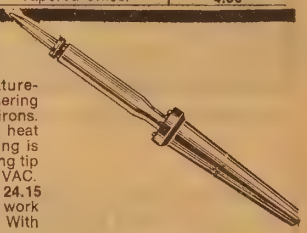
LITTLE DANDY IRONS

Stock No.	Mfr's Type	Wattage	Tip Size	EACH
709-3108	3108-20	20	1/8"	15.59
709-3110	3110-30	30	3/16"	15.59
709-3112	3112-50	50	1/4"	18.27

TIPS FOR ABOVE

Stock No.	Size	Mfr's Type	Description	EACH
709-3174	1/8"	174	Tapered Chisel	4.00
709-3643	3/16"	643	Chisel	4.40
709-3617	3/16"	617	Tapered Chisel	4.40
709-3715	1/4"	715	Tapered Chisel	4.80

SOLDERING IRONS WITH "TEMPERATURE SENSING" TIPS

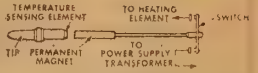


MODEL W-60 60-WATT SOLDERING IRON. Temperature-sensing device in tip automatically maintains correct soldering temperature. Does work of conventional 15 to 100-watt irons. Never overheats; saves current when idling. Reaches full heat quickly, gives rapid heat transfer. Much less tip redressing is required. Tips are easily removed and replaced by loosening tip nut. Only 2½ oz. Length, 7¼". 700°F, 1/16" screwdriver tip. 120 VAC.

984R2515. Shpg. wt. 10 oz. ..... Each 24.15

MODEL W-100-WATT IRON. As above, 100 watts. Does the work of 75 to 150-watt irons. Length, 8¼"; weighs only 3½ oz. With 700°F, 3/8" screwdriver tip. For 120 volts, 60 Hz AC.

984-2520. Shpg. wt. 12 oz. ..... Each 30.85



PREMIUM-PLATED REPLACEMENT TIPS FOR ABOVE IRONS
Series CT5 is for Model W-60 iron; Series CT6 for W-100 iron.

Stock No.	Mfr's Type	Description	Temp.	EACH
984-1001	CT5A6	1/16" Screwdriver	600°F	3.33
984-1002	CT5A7	1/16" Screwdriver	700°F	3.33
984-1003	CT5A8	1/16" Screwdriver	800°F	3.33
984-1004	CT5B6	3/32" Screwdriver	600°F	3.33
984-1005	CT5B7	3/32" Screwdriver	700°F	3.33
984-1006	CT5B8	3/32" Screwdriver	800°F	3.33
984-1007	CT5C6	1/8" Screwdriver	600°F	3.33
984-1008	CT5C7	1/8" Screwdriver	700°F	3.33
984-1009	CT5C8	1/8" Screwdriver	800°F	3.33
984-1011	CT5D7	3/16" Screwdriver	700°F	3.33
984-1012	CT5D8	3/16" Screwdriver	800°F	3.33
984-1015	CT6D7	3/16" Screwdriver	700°F	4.75

REPLACEMENT HEATING ELEMENTS

Stock No.	Type	Description	Wt.	EACH
984-1060	HE-W60	For W-60 iron	2 oz.	10.00
984-0960	HE-60	For W-TCP pencil	2 oz.	10.00

SAFETY SOLDERING IRON STANDS

GRAVITY CONTROLLED STAND



Type 575. Opens and closes automatically. No need to look up from work. For all Little Dandy, other mini irons. Steel 6×2×4".

709-3575 ..... Each 10.00

MINIATURE IRON STAND



Type 576. Solder pool keeps tip from "cooking", ready for use. Accepts Little Dandy, other mini irons. For on/under bench mounting. Heavy-gauge steel.

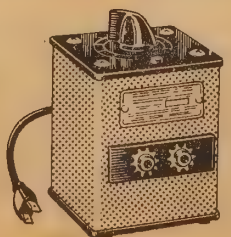
709-3576 ..... Each 10.00

MODEL 105-A3 POWER UNIT

Provides Accurate, Variable Control for Wire-Stripping and Soldering—Isolates Tool from Line Voltage

Infinitely variable power control unit provides single power control for most thermal wire-stripping and resistance soldering applications. Accurate control of soldering tool heat. Isolates soldering tool from line voltage for safety. Designed especially for use with hand pieces at right. Adjustable 0-100 watt output, 0-3 volt output. Fuse protected. 4x5x5". 115 VAC. Shipping wt. 7½ lbs.

993-2303 ..... Each 77.93



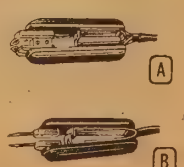
CONTROLLED-TEMPERATURE SOLDERING DEVICES

(A) **10541 TWEEZERS.** Resistance soldering. .078" electrode dia. 0-3/8" space. 5" long, 4' lead.
993-2313. Shpg. wt. 1 lb. ..... Each 28.40

(B) **10544 TWEEZER-TYPE WIRESTRIPPER.** Wires to 18-gauge. 15-100 W. 4½" long. Adj. stop.
993-2319. Shpg. wt. 1 lb. ..... Each 35.48

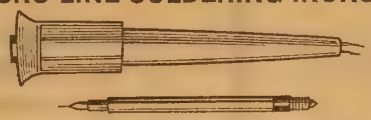
993-2322. 10545 Element. For 10544 Wirestripper above. Shpg. wt. 1 oz. ..... Pkg. of 2 for 1.50

993-2310. 10519 Footswitch. For 105-A3 Power Unit, left. Shpg. wt. 12 oz. ..... Each 16.45



Soldering Guns, Irons and Accessories

"PRINCESS" MICRO-LINE SOLDERING IRONS



For the special needs of micro-electronic assembly. Precision tool design permits pinpoint hand control and high-yield soldering of delicate circuitry and components in the tightest spaces. Modular versatility with interchangeable handles, heat capsules and tips.

MODEL 6900 SOLDERING STATION

Ten-watt soldering iron and holder with special sponge, three copper nibs: pencil, screwdriver and spade. Tip temp., 550-650°F (290°-340°C). 120 volts AC-DC. 10 oz. (283.5gm).

972-6900. 1-9 ..... Each 21.37
10-49 ..... Each 19.23 **50-Up** ..... Each 17.10

"PRINCESS" HANDLES

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-Up
972-6903	6903	Pastel nylon handle with plastic cool-grip, 3-wire cord and plug	13.75	9.17	8.25

STAINLESS STEEL HEAT CAPSULES

Accept all 1/8" nibs and tiplets (listed below).

Stock No.	Mfr's Type	Temperature °F	Temperature °C	Watts	Reach Inch	Reach MM	EACH 1-9	EACH 10-49	EACH 50-Up
972-6910	6910	575-650	300-340	10	2⅜	59	12.20	8.13	7.32
972-6915	6915	700-775	370-410	15	2⅜	59	12.20	8.13	7.32
972-6918	6918	775-850	410-450	18	2⅜	59	12.20	8.13	7.32

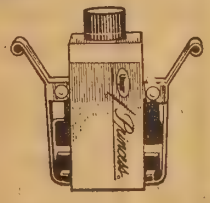
1/8" PRINCESS SOLDERING NIBS

For all Princess heat capsules, and Standard Line heating units 535S, 1235S and 4035S. Use Adapter 100 for Standard Line heating units 537S, 1237S, 4037S and all 3-wire irons. *Iron-clad gold-plated copper; all others are plain copper. 3 oz.

Stock No.	Mfr's Type	Description	Inches L.	Inches Dia.	Inches Tip	MM L.	MM Dia.	MM Tip	EACH 1-9	EACH 10-49	EACH 50-Up
972-6962	6962	Spade*	.62	.13	.08	15.79	3.30	2.03	1.87	1.31	1.10
972-6951	6951	Screwdriver	.60	1/8	.005	15.28	3.18	0.13	1.00	.74	.62
972R6961	6961	Screwdriver*	.62	.13	.06	15.79	3.30	1.52	1.87	1.31	1.10
972-6960	6960	Pencil*	.62	.130	.015	15.79	3.30	.38	1.87	1.31	1.10
972-6963	6963	Precision*	.61	1/8	.010	15.50	3.18	.25	3.40	2.27	2.04
972-0100	100	Adapter ..... Each .72									

PRINCESS DE-SOLDERING EQUIPMENT

INTEGRATED CIRCUIT EXTRACTORS



Type 6982 Dual In-Line IC Extractor. Pushbutton extractor, for use with Type 6948 tip. 8 oz.

Type 6983 Princess TO-5 Extractor. Easy to use. 8 oz.

Stock No.	Mfr's Type	For	EACH 1-9	10-49	50-Up
972R6982	6982	DIP	5.05	3.37	3.02
972-6983	6983	TO-5	5.85	3.91	3.52

DE-SOLDERING TIPS

Use with all Princess heat capsules, 6910, 6915, and 6918; standard line heating units 535, 1235, 4035S. Add #100 adapter for heating units 537S, 1237S, 4037S and 125, 135, 145 3-wire irons.



Type 6943. For 8, 10 or 12-lead IC's in "TO" configuration. Tip temperature approximately 700°F at 18 watts. Diameter: .600". **Type 6945.** For transistor pads. Tip temperature approximately 700°F at 18 watts. Diameter: .375". **Type 6948.** Slotted bar design removes solder from 16-pin dual in-line IC in one pass. Approximately 570°F at 18 watts. Ironclad, nickel-plated, pre-tinned.



Stock No.	Mfr's Type	EACH 1-9	10-49	50-Up
972-6943	6943	5.37	3.58	3.22
972-6945	6945	5.37	3.58	3.22
972R6948	6948	6.00	4.00	3.60



ALLIED ISO-TIP® CORDLESS SOLDERING IRONS

Model 7500. The total concept in completely portable soldering ease and performance. The Allied Iso-Tip® lets you solder in difficult-to-work places without a cord hindering your actions. Just press the button and you have soldering heat in 5 seconds. Nickel-cadmium batteries power up to 125 joints per charge. Recharges in stand in 12 to 16 hours or overnight. Iron comes with recharging stand and one #7545 Fine Tip. See below for replacement tips.
991R7570. Model 7500 "Iso-Tip" Kit ..... **Each 21.95**

Model 7800. Here's a cordless soldering iron that recharges from "dead" to "full" in one hour or less. Iron keeps a full charge when rested in stand between uses and energy-saving trickle charging maintains charge when not in use. LED indicator tells when charge is full, provides soldering heat in 5-8 seconds. Up to 125 electronic joints per charge. Iron comes with recharging stand, #7577 Chisel and #7545 Fine Tips. See below for replacement tips.
991-7800. Model 7800, "Iso-Tip"-60 ..... **Each 34.95**

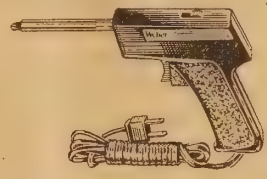


ISO-TIP® CORDLESS SOLDERING GUN

Model 7900. The cordless soldering gun allows maximum working freedom while its increased power capacity enables the user to perform a wide variety of electronic and electrical soldering functions. Self-contained automatic solder feed supplies solder through feed tube at the tip whenever trigger is fully depressed. Up to 300-400 joints per charge. Soldering heat in 5-8 seconds. Powerful nickel-cadmium batteries are rechargeable overnight with recharger which plugs into any 110-120V outlet. Soldering gun comes with automatic solder feed, solder spool, separate plug-in recharger, one #7593 High Temperature Beveled Tip and one #7577 Chisel Tip. See below for replacement tips.
991-7900. Model 7900 ..... **Each 49.95**

REPLACEMENT TIPS

For use with the above soldering gun and irons.
991-7577. Chisel Tip ..... **Each 3.75**
991R7535. Regular Tip. For most general purpose soldering tasks. 5/32" (4mm) ..... **Each 3.00**
991R7545. Fine Tip. For intricate soldering tasks including PC board work ..... **Each 3.75**



TEMPMATIC® SOLDERING GUN

MODEL GT. Combines temperature-controlled operation with the convenience of a pistol-shaped, trigger-operated gun with small-frame pencil iron. Quick heating, patented powerhead gives control of maximum temperature for damage-free soldering. Requires #7A long-life 700°F, 3/16" chisel point powerhead or #6B, 600°F, 1/8" conical powerhead (below). Powerhead ejection button. 110-120V, 60 Hz AC.

Stock No.	Mfr's Type	Description	EACH
984-3700	GT	Solder Gun Body	8.35
984-0707	7A	700°F Powerhead	15.00
984-0706	6B	600°F Powerhead	15.00

REPLACEMENT PARTS

For maintaining Weller soldering guns. Switch. Av. shpg. wt. 3 oz.

Stock No.	Type	Use With Models	EACH
984-7324	7324	All Dual-heat type Soldering Guns	5.00



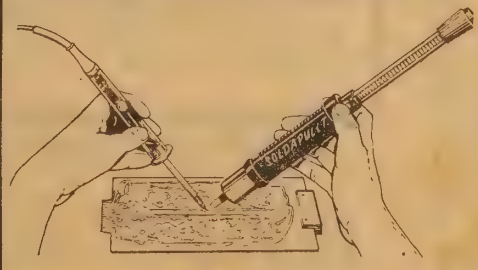
DUAL-HEAT SOLDERING GUNS

MODEL D-550PK. Outfit includes Weller D-550 heavy duty 240/325-watt soldering gun with three copper soldering tips: tip changing wrench, coil of solder, instructions, unbreakable plastic case. Prefocused twin spotlights. For 115VAC. U.L. Listed. 5 lbs.
984R0551. 1-4 ..... **Ea. 23.65 5-Up** ..... **Ea. 21.40**
D550. Soldering Gun Alone. Wt. 3½ lbs.
984-0550. 1-4 ..... **Ea. 20.35 5-Up** ..... **Ea. 18.40**
TYPE 64-2190. 100 or 140 watts gun provides high or low heat. With copper soldering tip.
910-5935. Shpg. wt. 1 lb. ..... **Ea. 13.95**

ALLIED REPLACEMENT TIPS FOR ABOVE

Stock No.	Type	For Model	Pk/2
910-5902	64-237	64-2190	1.29
910-5901	64-234	D550	1.29

DELUXE DESOLDERING TOOL



MODEL DS017. Designed for rework or removal of all advanced circuit components. A no-stick teflon spout self cleans with each vacuum cycle. Loaded with features: push-out tip, internal solder traps, extra large vacuum chamber, internal cleaning shaft and multi-action plunger system. High impact barrel is made of durable nonconductive plastic with a comfort sculptured hand grip. Easily disassembled for internal cleaning and lubrication. Rugged trigger latch for fast one hand operation. Low inertia floating system plunger has extra strong internal main spring.
783-0017 ..... **Each 14.95**
783-0112. SRT12. Replcmt. tip ..... **Each 2.50**

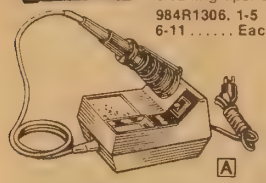
Soldering Irons and Accessories

SOLDERING IRON STAND



MODEL PH60. Designed especially for Model W-60 pencil. Keeps iron conveniently and safely at your fingertips. Includes special sponge for cleaning tips. Shpg. wt. 2 lbs.

984R1306. 1-5 ..... Each 10.00
6-11 ..... Each 6.70 12-Up ... Each 6.00





A 60-WATT CONTROLLED-TEMPERATURE PENCIL

MODEL WTCPN 60-WATT UNIT. Unique closed-loop system automatically controls tip temp. at 600°, 700° or 800°F to protect sensitive components. Temp. selected by changing heat sensing tip. Heat-shielded soldering pencil. On/off switch, red indicator light, larger tip-cleaning sponge and receptacle, non-burning silicon rubber iron cord, 3-wire power cord. 120V 50/400 Hz 60W. Furnished with 1/16" 700°F tip (PTA7). U.L: listed.

B 20-WATT CONTROLLED-TEMPERATURE PENCIL

MODEL WTCP2. Similar to WTCPN above. Dial-set temp. from 200°F to 450°F for low temp. solder, up to 300°F melting point. Silicon-controlled rectifier and thermistor controlled circuit. Lightweight pencil with non-burnable silicone rubber cord. Long life tip. Power unit has tip-cleaning sponge and receptacle, "non-heat-sinking" tool holder. 120V 50/400 Hz 30W. U.L. listed.

Stock No.	Mfr's Type	EACH		
		1-5	6-11	12-Up
984R2507	WTCPN	57.55	51.75	45.90
984-2510	WTCP2	108.35	97.50	86.45

REPLACEMENT TIPS FOR MODEL WTCP-2

Top quality, iron plated tips with anti-oxidation coating.

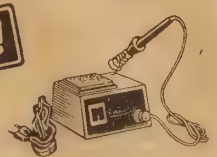
Stock No.	Mfr's Type	Description	Reach	EACH		
				1-11	12-24	25-Up
984-2400	STA	1/32" Conical Flat	5/8"	3.75	2.50	2.25
984-2401	STB	1/16" Screwdriver	5/8"	3.75	2.50	2.25

PREMIUM-PLATED REPLACEMENT TIPS FOR WTCPN SERIES

Stock No.	Mfr's Type	Description	Temp.	EACH		
				1-11	12-24	25-Up
984-1506	PTA6	1/16" Screwdriver	600°F	3.37	2.25	2.03
984-1906	PTC6	1/8" Screwdriver	600°F	3.37	2.25	2.03
984-2106	PTH6	1/32" Screwdriver	600°F	3.37	2.25	2.03
984-2306	PTL6	5/64" Long Screwdriver	600°F	3.37	2.25	2.03
984-1706	PTCC6	1/8" Spade	600°F	3.37	2.25	2.03
984R1507	PTA7	1/16" Screwdriver	700°F	3.37	2.25	2.03
984-1600	PTB7	3/32" Screwdriver	700°F	3.37	2.25	2.03
984-1907	PTC7	1/8" Screwdriver	700°F	3.37	2.25	2.03
984-2010	PTD7	3/16" Screwdriver	700°F	3.37	2.25	2.03
984-2107	PTH7	1/32" Screwdriver	700°F	3.37	2.25	2.03
984-2307	PTL7	5/64" Long Screwdriver	700°F	3.37	2.25	2.03
984-2350	PTM7	1/8" Long Screwdriver	700°F	3.37	2.25	2.03
984-1500	PTAA7	1/16" Spade	700°F	3.37	2.25	2.03
984-1707	PTCC7	1/8" Spade	700°F	3.37	2.25	2.03
984-2000	PTDD7	3/16" Spade	700°F	3.37	2.25	2.03
984-2370	PTP7	1/32" Conical	700°F	3.37	2.25	2.03
984-2030	PTF7	1/32" Conical Flat	700°F	3.37	2.25	2.03
984-1508	PTA8	1/16" Screwdriver	800°F	3.37	2.25	2.03
984-1908	PTC8	1/8" Screwdriver	800°F	3.37	2.25	2.03
984-2108	PTH8	1/32" Screwdriver	800°F	3.37	2.25	2.03
984-2308	PTL8	5/64" Long Screwdriver	800°F	3.37	2.25	2.03
984-1708	PTCC8	1/8" Spade	800°F	3.37	2.25	2.03

MP SERIES MINIATURE SOLDERING STATIONS

NEW!



Miniature soldering stations are especially designed for today's printed circuit electronics. Closed-loop temperature control protects sensitive components from heat damage. Tip is grounded. Temperature may be changed by simply changing plug-in iron. Non-burnable cord with low voltage output to iron affords added safety and gives longer life. Power supply and soldering pencil have high impact resistance housing which means longer tool usage. Operates from line voltage with step-down transformer. A variety of tips allow special applications. Unit is complete with tip, three wire power cord, power unit, sponge, "not heat sinking" iron holder, soldering pencil and specification sheet.

984-1156. Type MP156. 650° w/MP131 tip ..... **Ea. 60.00**
984-1157. Type MP157. 750° w/MP131 tip ..... **Ea. 60.00**

SOLDERING IRON FOR INDUSTRY



Rugged and dependable. Special iron-plated tips, available for all models, greatly reduces pitting. Casing and body are of one-piece seamless steel. Rubberoid-coated "stay-cool" handles. 6 ft. (1.8m) cords. Models from light to heavy-duty. U.L. listed.

Model 3128. 60 Watts. 1/4", (.64cm) copper tip. With stand. Lgth: 12¼ (31.21cm). 115VAC-DC. Wt. 1 lb. (.45kg).
709-0042. 1-5 ..... Each 16.75 6-Up ..... Each 14.00

Model 3138. 100 Watts. General-purpose 3/8" (.95cm) dia. copper tip. Chrome-plated. Cooling baffle; stand. 12⅞" (32.7cm) long. 110-120VAC-DC. Wt. 2¼ lbs. (1.02kg).
709-0045. 1-5 ..... Each 20.75 6-Up ..... Each 17.75

Model 3158. 200 Watts. For medium-heavy work. 5/8" (1.59cm) copper tip. With stand. Overall lgth.: 13⅝" (34.61cm) long. 110-120VAC-DC. Wt. 3 lbs. (1.36kg).
709-0048. 1-5 ..... Each 26.50 6-Up ..... Each 22.50

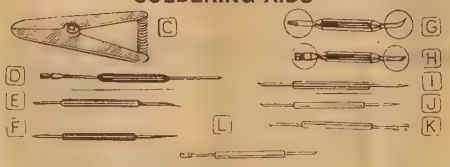
Model 3178. 300 Watts. For special production-line applications. Has 7/8" (2.22cm) copper tip. 14⅜ (36.51cm) long. With stand. For 110-120VAC-DC. Wt. 4 lbs. (1.81kg).
709-0051. 1-5 ..... Each 34.00 6-Up ..... Each 28.75

COPPER-NICKEL PLATED TIPS

*Diamond; ‡Screwdriver. Wt. 3 oz., (85.05gm).

Stock No.	Mfr's Type	For Iron	EACH	
			1-4	5-Up
709-0057	3728*	3114, 3125, 3128	1.15	.92
709-0058	3738*	3138	1.60	1.28
709-0056	3728S‡	3138	1.72	1.38
709-0059	3758*	3158	4.62	3.70

ALLIED SOLDERING AIDS



C 9077 HEAT SINK. Protects parts from heat. Made of aluminum — solder will not stick. Self-closing: frees hands. 3 oz.
796R9077. 1-4 ..... Ea. .73 5-Up ..... Ea. .48

D 9088 BRUSH. Wire brush and chrome-tipped holding end. 4 oz.
796-9088 1-4 ..... Ea. 2.67 5-Up ..... Ea. 1.78

E 9076 ANGLE END-TOOL. 4 oz.
796-9076. 1-4 ... Ea. 2.85 5-Up ..... Ea. 1.90

F 9075 STRAIGHT END-TOOL. Double ends ream, hold or pry. Chromed. 4 oz.
796-9075. 1-4 ..... Ea. 2.85 5-Up ..... Ea. 1.90

G 9093 SOLDERING PROBE. For printed-circuit work. 8" 3 oz.
796-9093. 1-4 ..... Ea. 2.67 5-Up ..... Ea. 1.78

H 9094 PC BOARD BRUSH AND SCRAPER. Stainless steel brush on one end, steel scraper on other. 8" overall length. 3 oz.
796-9094. 1-4 ..... Ea. 2.67 5-Up ..... Ea. 1.78

I 9069 REAMER AND SCRAPER TIP. Chrome-plated. Ends insulated. Scrape joints, ream lug holes. Wt. 4 oz.
796-9069. 1-4 ..... Ea. 2.85 5-Up ..... Ea. 1.90

J 9073 BRUSH AND FORKED TIP. For PC work. Forked tip for twisting or holding wires. Ends insulated. 3 oz.
796-9073. 1-4 ..... Ea. 2.85 5-Up ..... Ea. 1.90

K 9074 BRUSH AND SCRAPER TIP. Brush for dusting away excess solder, scraper for joints. Ends insulated. 3 oz.
796-9074. 1-4 ..... Ea. 2.85 5-Up ..... Ea. 1.90

L 9086 STRAIGHT REAMER AND FORKED TIP. Steel, chrome-plated. For lug holes, forked tip holds wires. 3 oz.
796-9086. 1-4 ..... Ea. 2.67 5-Up ..... Ea. 1.78

REPLACEMENT TIPS FOR MP MODELS

Top quality, iron plated tips with anti-oxidation coating.

Stock No.	Mfr' Type	Description	EACH		
			1-11	12-24	25-Up
984-1131	MP131	.020" Conical	3.00	2.00	1.80
984-1132	MP132	1/32" Bent Chisel	3.00	2.00	1.80
984-1133	MP133	1/32" Single Flat 45°	3.00	2.00	1.80

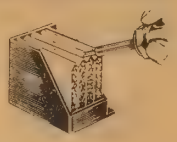
ARCHER 4-PC. "SOLDER EASE" KIT



MODEL 64-2227. Special kit containing four tools for improved soldering. Aluminum heat sink protects transistors and diodes when soldering, gives a firm grip. Fine-point probe aids soldering on printed circuits. Stainless steel hardened probe, steel brush and scraper helps keep circuit clean as you solder. Also with heat sink. Shpg. wt. ½ lb.
910-5937 ..... Each 2.99

ONE-PASS TIP CLEANER

- **Handiest Way to Clean Tips**
- **Eliminates Cleaning Problems**



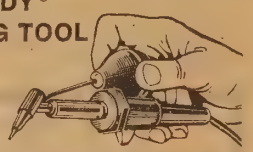
One pass between wet cellulose sponges cleans entire tip. Eliminates the former cleaning problems of tip-plate damage, linting, stray solder pellets. Water-well (¾" deep) keeps sponges wet and ready to use all day. The high impact styrene holder has a non-slip, rubberized base, bored for bench mounting. Ideal for workroom, classroom, and hobbyist.

Stock No.	Mfr's. Type	Description	Size	Wt.	Price EACH
709R4800	480	Complete tip cleaner	2½"x2¾" x3½"	¾ lb.	4.37
709-4801	480-S*	Replacement sponge for tip cleaner		1 oz.	2.20

*Complete set of 4 sponges.

LITTLE DANDY® DE-SOLDERING TOOL

ULTRA-LIGHT, VACUUM-TYPE



Ultra-light, vacuum-type de-soldering instrument has hollow tip surrounding connection. Melts solder, vacuums work clean. 40 watt heating element. Comes with captive 3-wire vinyl cord.

Stock No.	Mfr. Type	Description	Aperture (specify)	Wt.	EACH
709-1000	490	De-soldering tool compl.	.040"	½ lb.	25.50
709-1005	495	De-soldering attachment w/tip	—	½ lb.	11.25
709-1010	496	Air bulb only	—	¼ lb.	1.10
709-1015	497-30	Tip Only	.030"	¼ lb. (doz.)	1.23
709-1020	497-40	Tip Only	.040"	¼ lb. (doz.)	1.23
709-1025	497-50	Tip Only	.050"	¼ lb. (doz.)	1.23
709-1030	497-60	Tip Only	.060"	¼ lb. (doz.)	1.23

ALLIED SOLDER POTS



- **For Dip Solder Jobs**
- **Replaceable Elements**
- **Custom or Production Line Use**

SP-200: 200 watts up to 1¾ lbs. capacity. Size, 2¾ x 2⅜ x ⅞" deep. Wt. 3½ lbs. **SP-250:** 250 watts up to 2 lbs. capacity. Size: 3¾ x 2 x 1¾" deep. Wt. 3½ lbs.

Stock No.	Mfr's Type	Watts	EACH
840-3505	SP-200	200	14.95
840-3510	SP-250	250	14.95

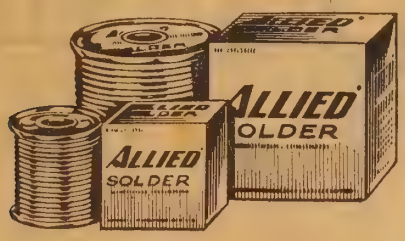
REPLACEMENT ELEMENTS. Made of nickel-chrome wire. 4 oz.
840-3500. Type A. For SP-200 ..... **Each 7.50**
840-3502. Type B. For SP-250 ..... **Each 7.50**

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

Solder, Solder Aids, Tools and Kits

ALLIED'S FINEST RESIN CORE SOLDER

For fast soldering. Features the most active resin flux on the market. Flux fungus and oxidation resistant. Used with all Allied soldering products: Allied Electric Soldering Iron, Soldering Gun, LP Gas Torch, Gas Blow Torch, Soldering Copper.



ALLIED RESIN CORE SOLDER

Stock No.	Spool Size	Tin-Lead Alloy	Core	Diameter		EACH		
				In.	MM	1-10	11-24	25-Up
833R5110	1#Spools	60/40	#66	.062	1.57	12.40	8.00	7.74
833-5120	5#Spools	60/40	#66	.062	1.57	41.00	37.19	32.68
833R5100	1#Spools	60/40	#66	.050	1.27	12.97	8.63	7.40
833R5090	1#Spools	60/40	#66	.040	1.02	13.42	8.73	7.50
833R5070	1#Spools	60/40	#66	.031	.79	10.10	9.18	7.96
833-5080	5#Spools	60/40	#66	.031	.79	39.33	33.71	31.43
833-5060	1#Spools	60/40	#66	.025	.64	10.50	9.69	8.30
833-5050	1#Spools	60/40	#66	.015	.38	14.66	12.57	11.43
833-5040	1#Spools	40/60	#66	.062	1.57	8.82	6.40	5.48
833-5140	1#Spools	63/37	#66	.062	1.57	13.10	9.55	8.18
833-5130	1#Spools	63/37	#66	.031	.79	13.65	9.10	7.80

ALLIED SOLID WIRE SOLDER

Solid wire for use with external flux is the equal in quality and purity of flux-core solders. Always uniform in diam. and quality.

Stock No.	Solid Wire	Alloy (Tin/Lead)	Diameter		EACH		
			In.	MM	1-10	11-24	25-Up
833-5160	1#Spools	63/37	.062	1.57	15.35	10.23	8.77
833-5150	1#Spools	60/40	.062	1.57	13.65	9.10	7.80

ALLIED BAR SOLDER

Available in all the tin lead alloys, including those for body work. Uniform distribution of tin-lead alloys in the bar.

Stock No.	Bar Solder	Alloy (Tin/Lead)	EACH		
			1-10	11-24	25-Up
833-5000	1#Bars	60/40	12.65	8.43	7.22
833-5010	1#Bars	63/37	13.30	8.86	7.60

DRI-WICK SOLDER REMOVER



Remove solder from printed circuit board connections quickly, cleanly. Desoldering takes only seconds — heat does not build up in components and circuitry. Leaves only a non-conductive resin residue so that resoldering is possible without cleaning. This dry wicking method eliminates flux spatter and leaves less residue than wet wicking or sucking methods.

Stock No.	Mfr. Type	Width		EACH			
		In.	mm	1-9	10-24	25-99	100-Up
709R4841	484-1	.025	.635	1.88	1.64	1.31	.98
709R4842	484-2	.040	1.016	1.88	1.64	1.31	.98
709R4843	484-3	.075	1.905	1.88	1.64	1.31	.98
709R4844	484-4	.095	2.413	2.13	1.86	1.49	1.10

SOLDERING FLUXES

All metals except aluminum. Stable under extreme conditions.

Flux Formula No. 1544. Highly activated resin flux, non-corrosive and electrically non-conductive.
833-1300. 1 pint. 2 lbs. (.9 kg) ..... **Each 6.65**

Flux Formula No. 1587. Resin-type foaming flux. Non-corrosive, electrically non-conductive.
833-1400. 1 pint. 2 lbs. (.9 kg) ..... **Each 6.65**

Flux Formula No. 5235 Remover. For easy removal of resin residue.
833-1420. 1 quart. 4 lbs. (1.8 kg) ..... **Each 6.87**



DESOLDERING VACU-BULB

- **Teflon Tip!**
- **Safe & Fast!**

Model 64-2086. This de-soldering vacu-bulb picks up solder easily, with a Teflon tip. Leaves work area spotless, is safe and fast! A must on any workbench!!
910-5806. ..... **Each 1.99**



ELECTRONIC TOOL KIT

Model 250K. This electronic tool kit contains a variety of basic tools for anyone getting involved in kit building, radio-T.V. repair or any related project. Kit includes: soldering tool and 2 extra tips, soldering aid tool, 10 oz. rosin core solder, 4" long nose plier, diagonal cutter, wire stripper, ¼" nut driver, slotted screwdriver, Phillips head screwdriver, all in a convenient storage tray. Wt. 14½ lbs.
984-0250 ..... **Each 28.45**

SERVI-TUBE SOLDER DISPENSERS



A KWIK-DRAW

Handy-sized yet hefty enough for the serious handyman. The core-flux wire 14 feet in length feeds from convenience dispenser. 60 tin/40 lead alloy.
833-5020. Shpg. wt. ¼ lb. ..... **Each 1.48**

B POCKET-PAK

Handles as easily as a pen or pencil and comes with a pocket clip. Ideal for service or repair, handy size keeps it always at hand. Dispenses a convenient length of wire. No unraveling. 60 tin/40 lead solder wire.
833-5030. Shpg. wt. ¼ lb. ..... **Each 1.48**

MULTI-PURPOSE SEIZER



Holds Wires, Acts as a Heat Sink, Retrieves Parts

Versatile tool clamps firmly to hold wires for soldering; acts as a heat sink — retrieves small parts from hard-to-reach places. Has two-position snap lock, serrated jaws, box-joint construction. Precision machined from stainless steel.
Type 7977 6" Straight Nose. 3 oz.
796-7977 ..... **Each 11.45**
Type 7979 6" Curved Nose. 3 oz.
796-7979 ..... **Each 11.75**

METRIC CONVERSION WHEEL



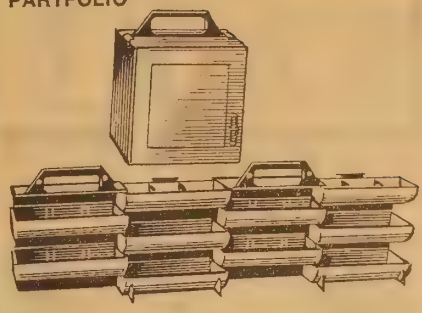
Simple to operate. Amazingly easy to read. With this handy new conversion calculator, simply set the value you wish to convert by lining up the arrows — then read your answer. Converts any U.S. linear, area, weight, liquid or volume into metric equivalents (or vice versa).
678R6670. 1-24 ..... **Ea. 1.50**
25-49 ..... **Ea. 1.25** **50-Up** ..... **Ea. 1.00**

NIBBLING TOOL



Type GC-805. This precision, hand operated tool is easy to use. Cuts sheet metal like a chassis punch. Start with a ⅜" hole and nibble to desired shape and size. Cuts up to 18 ga. steel, 1/16" copper, aluminum or plastic.
796-3660 ..... **Each 9.95**

MODEL 200D PARTFOLIO



A complete portable work station in a case. Constructed of high impact polystyrene plastic. Opened unit measures 31" (78.74cm) in length, exposing 10 trays. Each tray has dimensions of 7¾x3¾x1½" (19.68x9.52x3.81cm) (inside at top). Closed unit measures 8x8x8" (20.32x20.32x20.32cm). Each tray can be divided into 3 sections. 20 dividers are furnished with each unit which provides as many as 30 work compartments. Handle fits into recess of box above. Wt. 5 lbs. (2.27kg).
874-1000 ..... **Each 10.22**

ALLIED PRECISION ASSEMBLY TWEEZERS



For electronics assembly of miniature and micro-fine scale. Finest quality steel; workmanship assures freedom from misalignment. Points are ground flat on the inside. Precision sharp and shaped points, tension spring action. In a wide variety of styles — see illustrations. In table below:

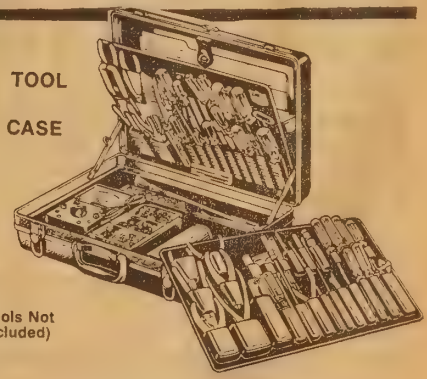
Stock No.	Fig.	Mfr's Type	Length Inches	EACH	
				1-11	12-Up
796-7948	A	7948*	4½	2.50	1.67
796-7993	A	7993	4⅛	9.32	6.22
796-7992	B	7992	5½	7.40	4.93
796-7994	C	7994	4¼	9.32	6.22
796-7995	D	7995	4½	11.15	7.43

All stainless steel except *nickel plated forged steel.

E ELECTRICIAN'S SCISSORS

TYPE F-15. Fine quality electrician's scissors are 5" long; 1¾" cut length. Shpg. wt. 3 oz.
809-6000. 1-11 ..... **Each 11.96** **12-Up** ..... **Each 8.66**

TOOL CASE

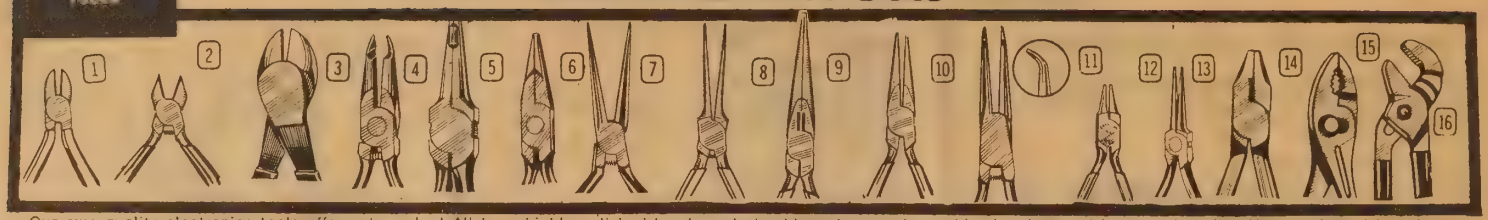


(Tools Not Included)

Model 600T. Carry and store your tools in this convenient case Constructed of tough, lightweight, good looking ABS thermoplastic, this case is built to last longer than the typical tool case. The pallet is made of texin, a tough urethane elastomer. The pockets are molded without any seams, stitches or rivets forming a solid one-piece unit. Case has an alum. rim, alum. rivets, stainless steel hinges, a heavy duty steel core handle, nickel plated brass key locks and ball bearing stays that keep the lid open with a full load of tools. Comes with two pallets and additional compartments for extra tools, parts and equipment, also, multiple lid pockets for papers. 18½x13x6" (46.99x33.02x15.24cm) Weight 8¼ lbs. (4.08kg).
887-0600 ..... **Each 71.75**

Model 605T. Same as above except 1 pallet. 4¼" deep, 7 lbs.
887-0605 ..... **Each 55.50**

Tools and Tool Sets



Our own quality electronics tools offer extra value! All have highly polished heads and shoulders. Accurately machined and ground for smooth action. Hammer forged from finest tool steel. Precision heat-treated cutting edges provide optimum temper, fast, easy cutting and long wear. Vinyl cushion grips isolate user from electrical shock. Bonding prevents chipping or peeling. Comfortable, nonslip grip also resists the effects of chemicals, acid and grease. These tools carry a full one year guarantee. Manufactured in the U.S.A. to Allied's own specifications.

Stock No.	Type No.	Fig.	Description	Cross-Reference					Wt. Oz.	EACH	
				Xcelite	Crescent	Hunter	Klein	Utica		1-4	5-Up
995-0206	0206	15	6" Chrome Plated Combination Plier For General Use	76CG	G26V	.....	.....	8-6C	5	5.35	3.57
995-0209	0209	15	8" Chrome Plated Combination Plier For Heavy Duty Use	78C	G28V	.....	.....	8-8C	9	6.45	4.30
995-0213	0213	15	6" Chrome Plated Combination Plier For Use In Tight Places	.....	L26V	.....	.....	.....	5	4.27	3.55
995-0220	0220	16	10" Utility Pliers. Forged Rib & Lock Design & Serrated Jaws. 4 positions. Max. Opening 1½"	63CG	R210CV	A-31-10	D502-10	507-10C	16	11.05	7.36
996-0225	0225	1	4" Midget For Close Quarter Work	54CG	942-4CY	A97G	D527-4	46-4C	2	8.30	6.64
996-0226	0226	1	5" Plier For Most Cutting Needs	55CG	942-5CV	A96-G5	D202-5	41-5C	3	9.00	7.20
996-0228	0228	2	4" Plier For Fast, Clean Tip Cutting. Fine Tapered Nose And Near Flush Cutting Edges	74CG	942-4½SC	A86MS	.....	.....	3	10.32	8.26
995-0229	0229	2	4" Full Flush Cutting Plier That Snap Cuts To The Extreme Tip	84CG	941-4SCE	A95MS	D209-4C	47-4CSJ	6	10.56	9.51
995-0233	0233	2	5" Full Flush Cutting Diagonal Plier. Thin, Pointed Nose Is Ideal For Close Burr-Free Cutting	95CG	943-5SC	.....	D209-5C	47-5CSJ	3	11.41	10.28
996-0234	0234	6	5" Thin Chain Nose, Smooth Jaws Are Slightly Beveled On Inside Edges. w/Spring	72CG	25-4½SC	A-11MS	.....	.....	3	8.20	6.56
996-0237	0237	9	6½" Long Nose Pliers With Side Cutter	51CG	654-6CV	A6-1G	D203-6	654-6C	3	9.40	5.72
996-0238	0238	14	6" Serrated Upper And Lower Jaws With Side Cutter	60CG	50-6CV	A-60C	.....	50-6C	8	10.32	8.26
996-0240	0240	14	8" Serrated Upper And Lower Jaws With Side Cutter	68CG	50-8CV	.....	.....	50-8C	16	12.70	10.16
995-0241	0241	5	6" Plier With Extreme Tip For Gripping, Sharp 5/16" Cutting Edges 3/16" Back From Tip	58CG	776-6CV	.....	D301-6P	896-6C	3	12.00	9.95
995-0243	0243	4	4½" Thin Needle Nose Plier With Cutter At Tip. Snap Cuts Fine Wires. For Printed Circuitry And Tight Quarter Work. Cuts 45° Angle At Extreme Tip	73CG	27-4½SC	A90MS	.....	.....	4	12.64	11.39
996-0247	0247	10	6½" Long Nose Pliers Without Side Cutter	52CG	1033-6CV	H8G	D301-6	1033-6C	3	8.07	6.46
995-0249	0249	13	7" Fine Needle Nose plier	.....	777-7CV	.....	.....	.....	3	8.50	5.69
996-0251	0251	12	4½" Rounded On Both Sides Of Nose And Precision Ground To A Fine Point	71CG	21-4½SC	A-43MS	.....	21-4½CS	3	8.92	7.14
995-0253	0253	8	6" Long, Slim Serrated Jaws Permit Entry In Areas Inaccessible To Regular Long-Nose Pliers	56CG	666-6CV	.....	.....	777-6C	3	12.60	8.38
995-0256	0256	7	5½" With Fine Serrated Jaws For Firm Gripping And Looping Of Wire. With Spring	57CG	665-5½SC	A5MS	D328-5½	775-CFS	3	12.00	9.95
996-0258	0258	1	6" All Purpose Diagonal Cutting Plier	66CG	.....	A96G-6	D202-6	41-6C	5	9.40	7.52
996-0259	0259	6	4" Midget Pliers, Serrated Jaws. Without Side Cutters	41CG	.....	A-11-DG	.....	22-4C	3	7.87	6.30
995-0261	0261	11	5" Bent Thin Nose Plier With Fine Serrated Jaws. 60° Angle Thin Bent Nose For Thin Wire	79CG	.....	A29MS	.....	25-5CHFS	4	11.23	10.40
996-0262	0262	3	7" Diagonal Pliers For Heavy Duty Cutting	67CG	.....	A87G	D228-8	40-7C	5	10.05	8.04

FIELD ENGINEER'S TOOL SET



Model TC-100/ST. Contains a variety of drivers plus necessary electronic speciality tools for field service work. The unique design of this sturdy, spacious tool case provides space for 53 individual screwdrivers, nut-drivers, pliers and wrenches, 31 Series 99 interchangeable screwdriver-nutdriver blades and handles, and two screwdriver-nutdriver sets, plus pockets for service manuals and ample room in the case bottom for additional tools, parts and test equipment. Case is of tough, chestnut-brown, leathergrain-vinyl. Top-quality, professional hand tools are set in see-thru pockets for instant, on-the-job identification and mounted on removable, vinyl pallets. Wt. 23 lbs.

995-5000 ..... **Ea. 297.77**

SUPER CASE TOOL KIT



Model 70260. Super case includes 48 problem solving tools for design, research, maintenance, repair and service requirements. Case is sturdily built with rich simulated look of black top-grain leather. Partitions in bottom of case are available for additional material such as test meters, etc. Pallets are removable, heavy gauge vinyl. Complete assortment holds all tools, testers and speciality units including: 4 testers; Crimping Tool; Wire Stripper; Measuring Tape; Hex Key Wrench; 2 Offset Drivers; Tapping Tool; Spring Tool; Snap Ring Plier; 4 Screw Launchers; Magnetic Driver; 2 Wrenches; 2 Reversible Drivers; 12 Screw Drivers; 7 Hollow Shaft Nut Drivers; 7 Pliers. 19"×14½"×6" Wt. 20 Lbs.

979-5000 ..... **Ea. 258.35**

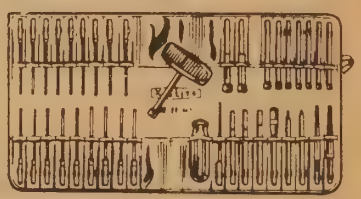


ATTACHE CASE TOOL KIT

Model TC-200/ST. This sturdy, spacious and attractive Attaché style tool case offers varied contents to give options in tool variety and economy. Top-quality, professionally styled hand tools are set in see-thru pockets for instant, on-the-job identification and mounted on removable, vinyl covered pallets. Furnished in handsomely covered, dovetailed, solid wood-frame case which provides generous additional space for extra tools, prints or manuals. The Attaché Case is available with a selection of tools for field service work. Designed to accommodate 27 interchangeable Series 99 Screwdrivers and Nutdrivers, for use with Straight or Tee Handle, 10 assorted Snips, Pliers, Wire Cutters and Wrenches. Wt. 11 lbs.

995-5001 ..... **Ea. 157.35**

99MP MULTI- PURPOSE SET



Regular handle, tee handle, 10 reg. nutdrivers 5/32-½"; 9 Allen screw drivers .050-3/16"; 9 Bristol screwdrivers .048-183", ¼, 5/16, 3/16" slotted screwdrivers; #1 Phillips ¾-⅜" and ¼-½" reamers, awl, scriber. With canvas case. Wt. 4 lbs.

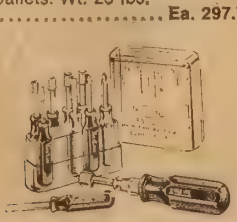
995-2000 ..... **Each 53.33**



MODEL 99PR COMBINATION KIT

Work faster and more efficiently. Now you can stop using a substitute tool because the correct size isn't available. Kit contains 13 chrome-plated pieces in a convenient roll-up plastic pouch. Includes: 9 nutdrivers from 3/16" to ½" in 1/32" steps; 2 single-end screwdrivers, 3/16" and ¼" size regular screw blades; 2 single-end Number 1 and 2 Phillips screwdrivers, plus plastic handles. Wt. 2 lbs.

995-2002 ..... **Each 17.98**



HIGH TORQUE TOOL SETS

Finely crafted sets for hobbyists, professionals and do-it-yourselfers. Each set of drivers performs a multitude of jobs. Precision made, they provide that delicate touch needed for fine tuning and delicate instrumentation work. Or, you can use the high torque handle to provide power for regular jobs. **Note: Contact Allied Electronics for quantity prices.**

Stock No.	Mfr's Type	Description	EACH
995-9901	PS88	8-pc. Screw Driver Set	11.80
995-9903	PS120	10-pc. Nut Driver Set	15.35
995-9905	PS89	10-pc. Allen Type Hex Key Set	11.80
995-9910	PS130	10-pc. Combination Set	15.65



ALLIED 5-PIECE 4½" PLIERS SET

Type 0257. 5-piece set in a handy zippered leatherette case. Drop-forged, fine-grain steel with heat-treated cutting edges. Vinyl cushion grips. Includes diagonal cutter, end-cut nipper, chain-nose pliers, flat-nose pliers, round-nose pliers. 1¼ lbs.

995-0257 ..... **Each 42.28**



99SM SERVICE MASTER SET

6" long-nose, 5" diag. pliers; 6" adj. wrench. 9 reg. nutdrivers from 3/16-½"; ¼, 5/16, ⅜" stubby nutdrivers; 3/16, ¼" screwdrivers; #1 Phillips screwdriver, ¾-⅜" reamer; ¼-½" reamer. 8" ext. blade; reg. handle; stubby handle. Shpg. wt., 2¾ lbs.

995-2010 ..... **Each 51.63**

See Page 2 for the Allied Electronics Facility Nearest You

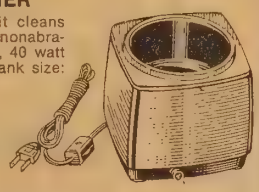
Ultrasonic Cleaners and Hand Tools

ULTRASONIC CLEANERS PROVIDE PENETRATING CLEANING ACTION

- **Makes Jewelry and Coins Sparkle Like New**
- **Clean Components and Small Instruments**
- **Stainless Steel** • **100% American Made**

Scrubs all types of intricate articles. Cleaners generate ultrasonic high-frequency waves which separate clinging dirt from surfaces without physical contact which may cause damage to delicate parts. Clean inaccessible places impossible to clean through any other method. For removing dirt, grease, and other substances from components, miniature mechanisms, and small instruments. Clean jewelry, dentures and coins. Ultrasonic principle provides quick and thorough cleaning. For continuous use at home or in production lines and labs. Completely transistorized. 80 kilohertz nominal frequency. No tuning required. For 115 volts, 50/60 Hz AC input.

MODEL K42 CLEANER



Compact and lightweight unit cleans jewelry and contact lenses with nonabrasive action. Has 80 watt input, 40 watt output. 115VAC, 50/60 CPS. Tank size: 3.5" (88.9mm) dia., 2" (50.8mm) deep has 1 pint capacity. Size: 5¼x5¼x5" (133.3x133.3x 127mm). Wt. 1 lb. 4 oz.
506-1000. 1-4 ..... **Ea. 49.95**
5-Up ..... **Ea. 44.95**

MODEL 450 CLEANER

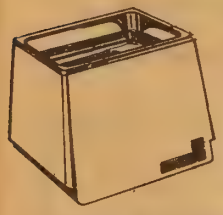
- **1-quart Capacity** • **Stainless Steel Tank**



Large tank, 3½"x8"x2½", provides room for components, jewelry, gems. 80 watts RF input. Console size, 8½x7½x4" high. Wt. 4 lbs.
550-0450. 1-4 ..... **Each 100.15**
5-Up ..... **Each 85.76**

MODEL S-50

- **3-Quart Capacity Cleaner**
- **Simple Operation, One On/Off Switch**
- **No Fan or Other Moving Parts**
- **No Radio-Frequency Interference**



Tank size is 9x5x4" (22.86x 12.7x10.16cm) with a 3-quart capacity. Overall size is 12x9x7½" (30.48x22.86x19.05cm) high. Has 125 watts RF input. Stainless steel tank. Has Duralac coated steel housing. Solid-state circuitry on a G-10 board. Stainless steel tank cover included. Wt. 14 lbs. (6.35kg).
709-5050. 1-4 ..... **Each 216.66**
5-Up ..... **Each 184.71**



EMERGENCY SAFETY LIGHTS



These unique safety lights generate no heat, spark or flame, simply flex and shake tubular container. May be stored in undamaged wrappers up to four years. Non-toxic, lightweight, windproof, non-caustic and needs no batteries. Emits 360° of light, even under water. Two types available: 12-hour light provides 3 hours of useful working light and can be used as a marker light for an additional 9 hours. Not recommended for temps. less than 45°F. 30-minute type is 3 to 4 times brighter and recommended for situations requiring max. light for short periods of time. May be used at less than 45°F. Sold in packages of 10.
511-0052. 30-minute type. **1-4** ..... **Pkg./10 Ea. 16.10**
5-Up ..... **Pkg./10 Ea. 14.80**
511-0053. 12-Hour type. **1-4** ..... **Pkg./10 Ea. 14.00**
5-Up ..... **Pkg./10 Ea. 12.80**
Wall mountable metal dispenser holds 10 lightsticks.
511-0100. 1-3 ..... **Each 10.62** **4-Up** ..... **Each 6.50**

STEEL MEASURING TAPE



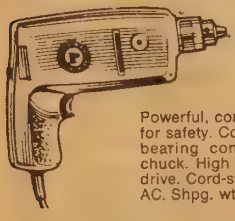
Model TM120. A 3-meter/10-foot, professional rule with black-on-white minimum graduations in millimeters and 1/32-inches on ½"-wide steel tape. Spring clip permits hooking on belt for convenient carrying and quick access when needed. Chrome-plated, break-resistant, plastic case.
995-0120. 1-9 ..... **Each 7.30**
10-24. ... **Each 4.38** **25-Up** ... **Each 3.89**

ADJUSTABLE WRENCHES



Thin-pattern design permits access where regular adjustables will not fit. Rugged construction, chrome-plated, polished heads, with quick one-hand adjustment and Cushion-Grip.

Stock No.	Mfr's Type	Description	EACH 1-3	4-9	10-Up
995-0044	44CG	4" lgth., ½" opening	10.35	6.88	6.20
995-0046	46CG	6" lgth., ¾" opening	10.45	6.96	6.27
995-0048	48CG	8" lgth., 15/16" opening	11.15	7.43	6.69



DOUBLE-INSULATED DRILLS

Powerful, comfortable and double-insulated for safety. Contoured pistol grip. Ball thrust bearing construction. Three-jaw geared chuck. High torque, double reduction gear drive. Cord-strain relief. For 115 V, 25-60 Hz AC. Shpg. wt. 4 lbs.

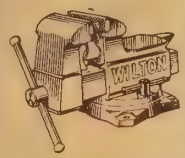
Stock No.	Mfr's Type	Description	EACH 1-3	4-5	6-Up
662-1070	4101	1400 rpm	20.38	17.45	16.30
662-1074	4130	3/8" variable 0-1400 rpm	25.28	21.67	20.22
662-1089	4150	3/8" reversing, variable 0-1400 rpm	37.31	31.98	29.85

"CONECUT" SHEET AND TUBE DRILL



Ideal for hand electric drills on materials up to 2mm thick and can also be used on pedestal drilling machines without clamps. Two tapered drill bits allow for any size hole needed. Reasonable accuracy is obtained by using a washer on the tip as a simple stop; shape of the bit allows easy withdrawal from the workpiece. Bit No. 1 drills holes from ¼" to 13/16". No. 2 drills holes from 5/8" to 1 3/16". No. 1 and 2 tools and coolant are packaged in a handy plastic wallet.
796-3420 ..... **Each 39.44**

MODEL 550 VISE

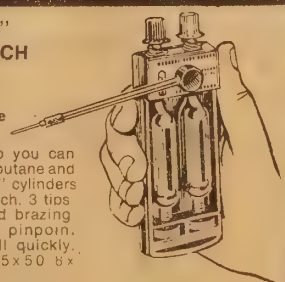


Has removable steel-insert 4½" jaws with serrated faces, built-in pipe jaws and precision screw drive. Swivel base locks firmly. Sturdy anvil has forming horn. Max. opening 4¼". Handles pipes ½" to 3" dia.

988-7550. Shpg. wt. 19 lbs. ..... **Each 26.21**
Model 535S. Above, but has 3½" jaw. Max. opening, 3". Takes pipes ½" to 3". Shpg. wt. 11 lbs.
988-7535 ..... **Each 15.32**

"MICROFLAME" HANDHELD TORCH

- **Welds, Brazes, Cuts Most Metals**
- **Safe and Easy-to-Use**



Here s a welding shop you can hold in your hand. One butane and 2 extra-safe "Micronox" cylinders — up to 30 minutes each. 3 tips soldering, welding and brazing Develops over 5,000° pinpoint flame. Cylinders install quickly. 5¼x2x1¼" (133.35x50.8x 31.75mm).

910-2165. 64-2166 ..... **Each 21.65**
910-2166. 64-2166, Extra Butane Cylinders **2/1.89**
910-2167. 64-2167, Extra Micronox Cylinders **2/1.69**

ALLIED SCREWDRIVERS

Allied's own flat-bit and Phillips head screwdrivers have tough durable blades. Shockproof amberyl handles are correctly sized to match the blade. All are made of nickel-plated chrome vanadium steel specially treated to be tough. Precision points fit screws properly for the best job.



FLAT-BIT SCREWDRIVERS

Stock No.	Mfr's Type	Handle D x L In.	Shaft Size D x L In.	EACH 1-5	6-Up
995-9801	R184	5/8x2¾	1/8x4	1.30	.87
995-9802	R186	5/8x2¾	1/8x6	1.45	.95
995-9803	R188	5/8x2¾	1/8x8	1.95	1.17
995-9804	R3164	7/8x3½	3/16x4	2.00	1.33
995-9805	R3166	7/8x3½	3/16x6	2.25	1.50
995-9806	R3168	1x3⅝	3/16x8	2.50	1.67
995-9807	R144	1x3⅝	¼x4	2.65	1.77
995-9808	R146	1x3⅝	¼x6	2.85	1.90
995-9809	R148	1x3⅝	¼x8	3.10	2.05



PHILLIPS SCREWDRIVERS

Stock No.	Mfr's Type	Handle D x L In.	Shaft Lgth. In.	Point No.	Point Size In.	EACH 1-5	6-Up
995-8830	X100	5/8x2¾	2	0	1/8	1.45	.95
995-8826	X101	7/8x3½	3	1	3/16	2.15	1.43
995-8827	X102	1x3⅝	4	2	¼	2.65	1.77
995-8824	X103	1 1/16x4	6	3	5/16	3.85	2.57
995-8825	X104	1 3/16x4½	8	4	3/8	4.85	3.22



ALLIED DRILLED-SHAFT NUTDRIVER

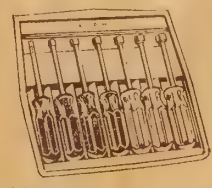
Stock No.	Mfr's Type	Shaft Size In.	Handle D x L In.	Hex Size In.	EACH 1-5	6-Up
995-9832	6	3	1 1/16x3⅛	3/16	2.35	1.57
995-9833	7	3	1 1/16x3⅛	7/32	2.35	1.57
995-9834	8	3	1 1/16x3⅛	¼	2.35	1.57
995-9835	9	3	1 1/16x3⅛	9/32	2.35	1.57
995-9836	10	3	1 1/16x3⅛	5/16	2.35	1.57
995-9839	14	2⅝	1⅛x4⅛	7/16	3.00	2.00
995-9840	16	2⅝	1⅛x4⅛	½	3.00	2.00
995-9841	*HS18	3⅛	1⅛x4⅛	9/16	3.25	2.15

*Hollow-Shaft.



REVERSING SCREWDRIVER

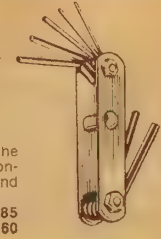
Model CR1. The Reversing Screwdriver is designed to be a versatile, precision tool. Features a 3/16" dia., regular and #1 Phillips blade. Wt. ½ lb.
995-9811 ..... **Each 4.30**



127TB HOLLOW SHAFT NUTDRIVERS

Lightweight, hollow-shaft nutdrivers with molded, color-coded plastic handles. Nickel-chrome plated drivers. Seven popular sizes for most nut tightening and loosening jobs. Drop-forged and heat-treated for hardness. Sizes: 6, 7, 8, 9, 10, 11, and 12
995-0201 ..... **Each 12.05**

POCKET HEX WRENCH SET



TYPE HK17. Set includes seven of the most common hex wrench sizes. Contains: .050", 1/16", 5/64", 3/32", 1/8", 5/32" and 3/16" folding hex blades.
975-4812. 1-5 ..... **Each 1.85**
6-Up ..... **Each 1.60**

Alignment Tools, Knives, Chassis Punches, Tool Sets



NEW!

ALIGNMENT AND SPECIALTY TOOL KIT

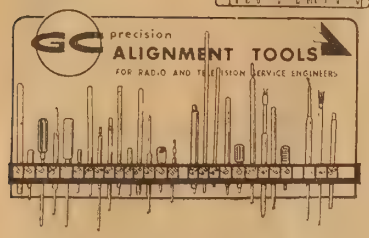
This kit contains a selection of popular alignment and service tools in a handsome carrying case, ideal for the technician and engineer. Each tool's application is described on inside of case. The kit, containing 44 tools, includes: five hex tools, three hex wrenches, four screwdrivers, eight aligners, three Tel-A-Turn tools, wirestripper, wrench kit, inspection mirror, K-Tran tool, Neo-Lite tester, Lo Volt tester, fuse puller, tweezers, TV channel tuning tool, capacitor tool, two 2-IN-1 tools, oiler, reamer tool, heat sink, solder probe, brush/scraper tool, ruler, burnishing tool, transistor tool, and double end tool. .

796-5060. Type 5050 ..... **Each 42.72**



D

C



C GC TYPE 9200 ALIGNMENT TOOL KIT. Wall mounting kit includes 27 most needed radio-TV alignment tools. Housed in sturdy, 3-color steel panel with 2-hole mounting. Precision made of the finest materials including low-loss plastics and extra-hard bone fiber; tips are hardened spring steel. Includes: various length alignment screwdrivers; special short tools; alignment wrenches; channel tuners; core aligners; oscillator adjust. tools; trimmer, IF aligners; solder probe; nylon replacement tip for long reach aligner; hex tools; etc. Panel is 9¾" high and 18¾" wide.

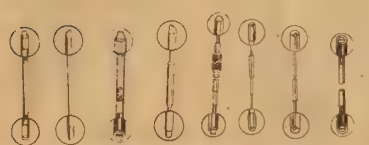
796R9200. Shpg. wt. 3 lbs. ..... **Each 29.17**

D TYPE 8280 TV TOOL KIT. Contains 15 TV alignment tools in a handy roll-up plastic case. Includes: "Shorty" duplex aligner; ⅛" sq. socket wrench; K-Tran tool; 0.100 hex wrench; recessed screwdriver; others. Tip of Delrin, extra-hard bone fiber, or hardened spring steel.

796-8280. Shpg. wt. 8 oz. ..... **Each 10.27**

TV ALIGNMENT AND ADJUSTMENT TOOLS

Stock No.	Type	Fig.	Description	Oz.	Each 1-9	Each 10-Up
796-5009	5000	E	Alignment screwdriver	3	.90	.72
796-5004	5004	F	Delrin all-wave set aligner	3	1.00	.80
796-8276	8276	G	Short duplex aligner	3	1.28	.79
796-8605	8605	H	Capacitor/tuner hex and screwdriver	3	1.73	1.15
796-8606	8606	J	Zenith-Admiral Delrin 5" hex wrench	3	.80	.64
796-8987	8987	K	7" blade plastic screwdriver	3	1.30	1.04
796-9089	9089	L	5¾" thin-end metal-tipped aligner	3	1.08	.86
796-9300	9300	M	.075" hex coil slug and alignment	3	.90	.72



E F G H J K L M

TOOL SETS AND SCRIBERS



1 2



MMK-6 MASTER KIT

1 MODEL MMK-6. Consists of six different tool kits: SC-5, PA-5, SW-5, OE-5, TS-5 and #70. The SC-5 and PA-5 are described below. **SW-5 kit** consists of five interchangeable steel hex sockets with swivel-top, chuck-type handles. Sizes: 5/64", 3/32", 7/64", ⅛", 5/32". **OE-5 kit** consists of five off-set open-end steel wrenches, plus chuck-type handle and plastic case. Wrenches same size as SW-5. **TS-5 kit** consists of five steel taps in sizes 0-80, 1-72, 2-56, 3-48, 4-40. Has knurled chuck handle, torque hole for leverage. **#70 Kit** contains drills 3/64", #53, #50, #47, #43. Wt. ½ lb.

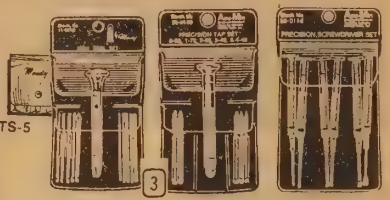
865-6207 .... **Each 50.00** **12-Up** ... **Each 37.87**

2 SC-5 SCREWDRIVER/AWL SET. 5 changeable blades fit universal, swivel-type handle with screw-type chuck. Blades: 4 screwdriver — .055", .070", .080", .100"; plus an awl. In compact plastic container. 5 oz.

865-6212 ... **Each 3.33** **12-Up** ... **Each 2.66**

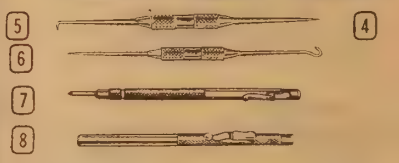
2 PA-5 PHILLIPS DRIVER AND ALLEN WRENCH SET. Phillips size: #0, #1, and Allen sizes: #4, #6, and #8. With chuck type handle. 5 oz.

865-6210 ..... **Each 5.63** **12-Up** .... **Each 4.50**



TS-5

3



5 6 7 8 4

3 TS-5 TINY TAP SET. A specially heat-treated 6-piece set in soft plastic case. Includes five steel taps in sizes 0-80, 1-72, 2-56, 3-48, 4-40. Has knurled chuck handle, torque hole for leverage. Shpg. wt. 5 oz.

865-6218 .... **Each 22.00** **12-Up** ... **Each 16.70**

3 NO. 59 MINI TOOL SET. Handle and interchangeable blades: 2 Phillips, 4 slotted, 3 Allen blades, and one awl. Precision crafted set for home or hobby shop. In plastic container. Wt. ½ lb.

865-6259 ..... **Each 8.45** **12-Up** .... **Each 6.76**

3 #52 UTILITY SCREWDRIVER SET. Versatile set that includes a precision screwdriver with six interchangeable blades from .025" to .100". Shpg. wt. 1½ lbs.

865-6221 ... **Each 5.63** **12-Up** ... **Each 4.50**

4 JS-6 JEWELER'S SCREWDRIVER SET. Finely-crafted set includes six jeweler's drivers with precision steel blades (.025", .040", .055", .070", .080" and .1"), knurled handles, grooved chuck. Made to Federal spec. GGG-S-121 With case ¾ × 4½ × 3¾". Shpg. wt. ½ lb.

865R6206 ... **Each 10.00** **12-Up** ... **Each 8.00**

5 MS-2 MACHINIST SCRIBER. Tapered hook and straight points that are heat-treated and hardened. Knurled aluminum handle for comfortable grip. Shpg. wt. 6 oz.

865R6208 .... **Each 1.50** **12-Up** .... **Each 1.20**

6 HPS-2 HOOKED POINT SCRIBER. Features one end that is fully hooked, one end straight. Tapered. Shpg. wt. 6 oz.

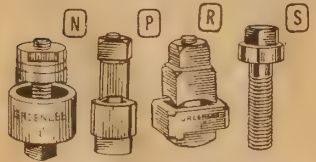
865-6204 ..... **Each 1.50** **12-Up** .... **Each 1.20**

7 #46 CARBIDE POCKET SCRIBER. Features a reversible tip, lock nose, plus handy pocket clip. Shpg. wt. 6 oz.

865-6219 ..... **Each 2.87** **12-Up** .... **Each 2.30**

8 #41 Magnetic Pickup. These powerful miniature magnets are excellent for removal of ferrous metal waste. Deep-knurled pocket size magnet with strong spring pocket clip.

865-6241 ..... **Each 2.50** **12-Up** **2.00**



N P R S

CHASSIS PUNCHES

N TYPE 730 ROUND PUNCHES. Cut smooth holes in sheet metal, bakelite, hard rubber, and composition. Cut through metals up to 16-gauge. Extremely easy to use, just turn cap screw with wrench to cut hole. No reaming or filing necessary. *Indicates meter cutout. 1½ lbs.

Stock No.	Hole Size Inches	Lead Size Inches	EACH 1-3	EACH 4-Up
799R3212	½	¼	8.00	5.10
799R3214	⅝	¼	8.00	5.10
799-3216	9/16	¼	8.00	5.10
799-3218	11/16	⅜	8.12	5.15
799R3220	¾	⅜	8.12	5.15
799-3222	13/16	⅜	8.12	5.15
799R3224	⅞	⅜	8.12	5.15
799-3226	15/16	⅜	8.97	5.70
799R3228	1	⅜	8.97	5.70
799-3230	1 1/16	⅜	9.25	5.90
799-3232	1 ⅛	⅜	9.25	5.90
799-3234	1 3/32	⅜	9.25	5.90
799-3236	1 3/16	⅜	9.25	5.90
799-3238	1 ¼	⅜	9.25	5.90
799-3240	1 ⅜	⅜	11.70	7.45
799-3242	1 ½	⅜	12.50	8.05
799-3246	1¾	¾	11.60	10.55
799-3248	2	¾	15.10	13.65
799-3250	2¼	¾	17.10	15.55
799-3254	2 25/32*	¾	27.50	24.95

P TYPE 733 "D" PUNCHES. For cutting "D" shaped hole. 2 lbs.

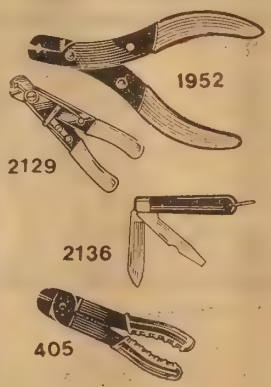
799-3270. For ½" hole. **1-3** ... **Ea. 14.23** **4-Up** .... **Ea. 12.90**

R TYPE 731 SQUARE PUNCHES. Cut square hole in up to 16-gauge metal with wrench. Requires ½" hole.

799-3256. For ½" hole. **1-3** ... **Ea. 13.75** **4-Up** .... **Ea. 12.45**
799-3258. For ¾" hole. **1-3** ... **Ea. 14.90** **4-Up** .... **Ea. 13.50**
799-3260. For 1" hole. **1-3** .... **Ea. 18.05** **4-Up** .... **Ea. 16.35**

S BALL-BEARING DRIVE SCREWS.
799-3201. AV112-BB. For 1" and 1½" punches. Operate with ordinary wrench. Wt. 1 lb. ..... **Each 4.65**
4-Up ..... **Each 2.95**

CUTTING TOOLS AND STRIPPERS



DIAL-TYPE 64-1952 STRIPPER / CUTTER. Versatile spring-loaded stripper and cutter adjusts to any gauge wire from #12 to #24. Flush cutting action. Plastic cushioned grips.

910-5803 ..... **Each 2.79**

TYPE 64-2129 WIRE STRIPPER / CUTTER. Spring-loaded tool strips #12 to #24 wires. Handy tool has easy-grip handle. Shpg. wt. ½ lb.

910-5931 ..... **Each 1.69**

TYPE 64-2136 POCKET KNIFE. Has knife, wire scraper and screwdriver. Sharp cutting blade. Non-slip handle. Safety lock. Shpg. wt. 4 oz.

910-5932 ..... **Each 2.29**

TYPE 64-405 THREE-WAY CRIMPING TOOL. Crimps solderless terminals, cuts wire, strips insulation. With asstd. terminals. Wt. 1½ lbs.

910-5903 ..... **Each 2.99**

BLADE KNIVES

T TYPE E65A KNIFE SET. Nos. 1, 2, 5 knives plus 10 assorted extra blades.

809-1290. Shpg. wt. 12 oz. ..... **Each 7.64**

V #1 KNIFE. 5" long, 5/16" dia.

809R1275. Shpg. wt. 3 oz. ..... **Each 1.24**

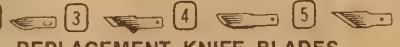
#2 KNIFE. 5" long, 7/16" diameter.

809-1278 ..... **Each 1.88**





1 V T



2 3 4 5

REPLACEMENT KNIFE BLADES

Nos. E26, E23, E25 fit ELO knife (Fig. V); Wt. 2 oz.

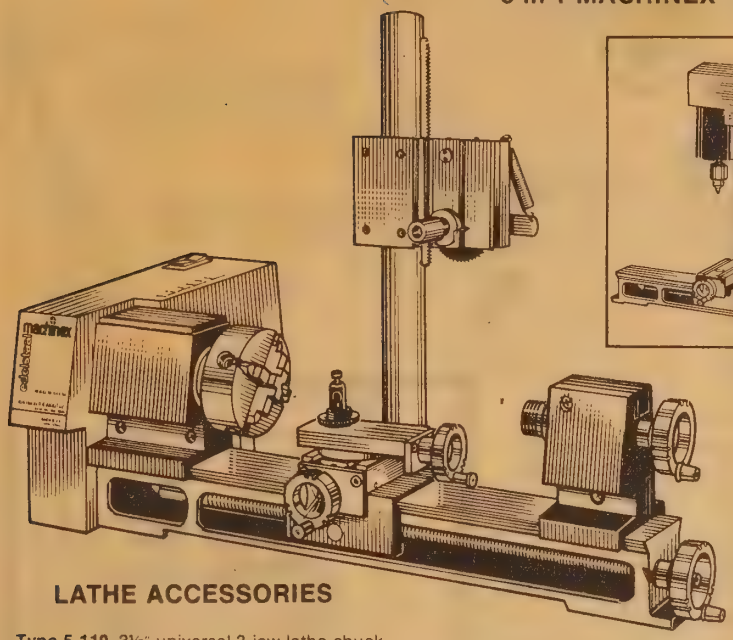
Fig.	No.	Description	Pkg. of 5 Stock No.	Pkg. of 5 Per Pkg.
1	E26	Fine Angle	809-1212	1.37
2	E23	Correction	809-1215	1.37
3	E25	Etching	809-1221	1.37
4	E33	Curve	809-1230	1.31
5	E32	Deep Angle	809-1239	1.26

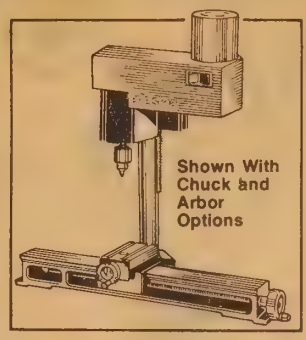
Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Bench Lathe and Workshop Accessories

SHOP EQUIPMENT

5-in-1 MACHINEX® SINGLE SPINDLE METAL LATHE





- **Big 5"-Swing Capacity • Six Spindle Speeds**
- **Powerful ¼-hp Heavy-Use Permanent Magnet Motor**
- **Has Cast Iron Machine Bed with Dovetail Ways**
- **Computer designed "Constant-Torque" V-Belt Drive System • Large ½" Collet Capacity**

Model LDM. Multi-purpose machine converts from precision 5" metal lathe to a universal drill press, vertical milling machine, surface grinder or polisher. Headstock and motor unit detaches easily from the lathe bed and mounts on a 16" steel column for all vertical operations. Change-over takes less than a minute. Machinex is compact and portable. Lets you do all machining operations you require. The cast iron bed is 24" in length. Features include cast iron machine bed with dovetail ways; lathe headstock with two fixture T-slots; ¼-hp PM motor with illuminated switch; 16" steel vertical column with rack; carriage; cross slide with two fixture T-slots; tailstock; handwheels with revolving handles; headstock center; tailstock center; 3, V-belts; service wrench, plus operating instruction handbook. Specifications: Motor: 115V AC, 60 Hz, 1-P, permanent magnet. Output: ¼-hp, 3 amps. Six spindle speeds, range: 250, 500, 1500, 2000, 3000, 4000 rpm. Full 14" capacity between centers. Big 5" swing capacity. Wt. 45 lbs.
970-0514. Type 1-514-01 ..... **Each 449.95**

LATHE ACCESSORIES

Type 5-110. 3½" universal 3-jaw lathe chuck with one set of 3 jaws.
970-0110 ..... **Each 49.95**

Type 5-120. 3½" independent 4-jaw lathe chuck.
970-0120 ..... **Each 49.95**

Type 5-130. Collet closer.
970-0130 ..... **Each 14.95**

Type 5-131. Precision steel collet (Type 5-130 required).
Each size ..... **Each 10.95**

970-0132	5-131-2	1/16"
970-0134	5-131-4	1/8"
970-0136	5-131-6	3/16"
970-0138	5-131-8	1/4"
970-0140	5-131-10	5/16"
970-0142	5-131-12	3/8"
970-0144	5-131-14	7/16"
970-0146	5-131-16	1/2"

Type 5-150. Double ball bearing live center.
970-0150 ..... **Each 17.95**

Type 5-125. ⅛" Drill Chuck (#5-127 required).
970-0125 ..... **Each 12.95**

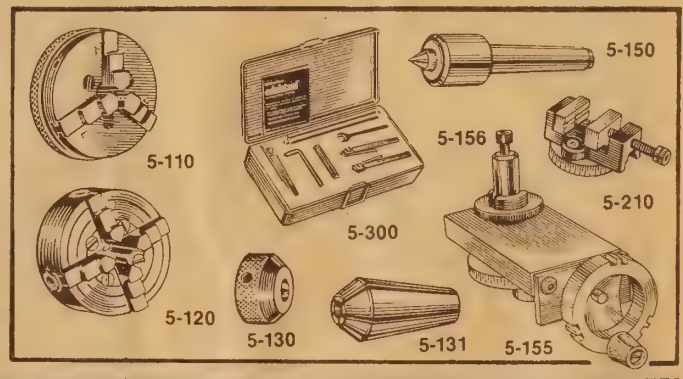
Type 5-127. Drill Chuck Arbor for main spindle.
970-0127 ..... **Each 5.95**

Type 5-155. Universal compound.
970-0155 ..... **Each 17.95**

Type 5-210. Machine vise with calibrated swivel base.
970-0210 ..... **Each 29.95**

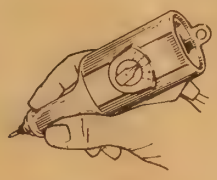
Type 5-300. Set of 13 lathe tools.
970-2820 ..... **Each 29.95**

Type 5-156. Compound tool post.
970-0156 ..... **Each 9.95**

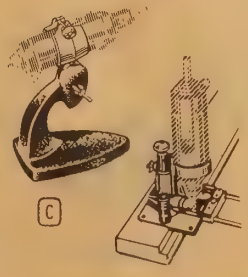


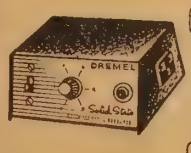
Allied Electronics Has Top Values in Power and Hobby Tools

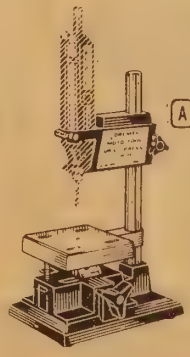
ELECTRIC ENGRAVER



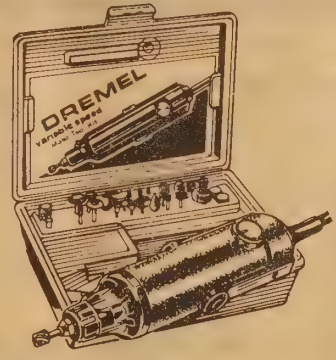
MODEL 290. Permanently marks most materials from hardened steel to glass. Calibrated 5 pos. stroke adjust, regulates length of stroke and depth of engraving. High speed reciprocating motor delivers 7200 strokes per minute. Carbide point. Nylon housing with hanger ring.
772R0290. Shpg. wt. 1½ lbs. ..... **Each 14.95**
NO. 9929 DIAMOND ENGRAVING POINT. For Model 290 above.
772-9929 ..... **Each 11.80**







Popular Drill Press Allows Precision Shop Work



MOTO-TOOL ACCESSORIES

Ⓐ **#210 DRILL PRESS.** For precision drilling, routing, model making. Table can be raised or lowered; locks in any position for accurate depth adjustment. Size, 42" high, 6¾x4" base.
772R0210. Shpg. wt. 5 lbs. ..... **Each 21.95**

Ⓑ **#229 ROUTER ATTACHMENT.** Allows fingertip guidance, superior visibility. Integral guide bars provide excellent depth adjustment. Can be used portably or in permanent bench-mounted position.
772-0229. Shpg. wt. 1 lb. ..... **Each 10.95**

Ⓒ **#223 UNIVERSAL STAND.** Leaves both hands free. Ball and socket assembly can be set at any angle. Quick-action clamp. Heavy cast iron base will not tip.
772-0223. Shpg. wt. 2½ lbs. ..... **Each 14.95**

Ⓓ **#219 SPEED CONTROL.** Solid-state circuitry. Portable. Dial right speed from 0 to full rpm. 115 VAC.
772-0219. Shpg. wt. 1½ lbs. ..... **Each 21.95**

MOTO-TOOL HOBBY/WORKSHOP SET

Model 281. Features extra rugged 100% ball bearing construction and 0.9 amp motor. With 34 accessories: steel cutters, grinding wheels, polishing tips, wire and bristle brushes, sanding disc, drum sander, mandrels, dressing stone, wrench, 2 collets, case. U.L. list. 7¼×11 1/16" 115 VAC.
772R0281. Shpg. wt. 3 lbs. ..... **Each 59.95**
772-0280. Model 280. Tool only 2 lbs. ..... **Each 49.95**

Model 271. Similar to Model 281, above, but with sleeve bearing construction and 0.8 amp motor. Accessories included.
772-9271. Shpg. wt. 3 lbs. ..... **Each 49.95**
772-0381. Model 381. As 281 above but with built-in solid state speed control for 5,000 to 25,000 RPM operation.
Each **69.95**

ACCESSORY SETS

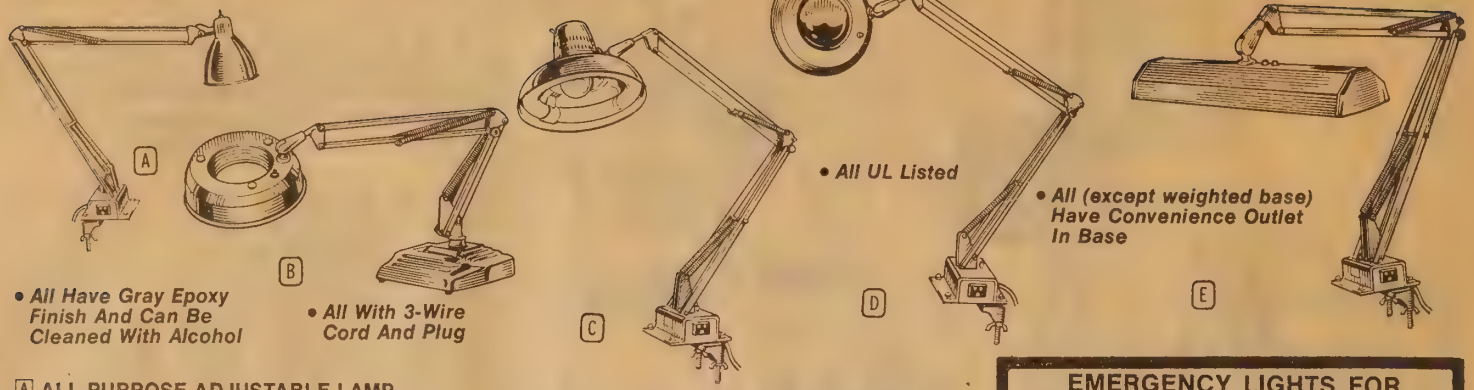
NO. 205. 12-PIECE SILICON GRINDING POINT SET. For hard steel, ceramics, glass. Vinyl fold-up pouch.
772-0205. Shpg. wt. 1 lb. ..... **Each 13.20**

NO. 600. 6-PIECE ROUTER BIT SET. For precision routing, inlaying, mortising in wood, soft materials. Pouch.
772-0600. Shpg. wt. 1½ lbs. ..... **Each 24.95**

NO. 9900. 12-PIECE TUNGSTEN CARBIDE CUTTER SET. Outlasts high-speed steel many times. Max. cutting head, 1/8". Pouch
772-9900. Shpg. wt. 1½ lbs. ..... **Each 60.00**

See Page 2 for the Allied Electronics Facility Nearest You

Lamps and Lights



- *All Have Gray Epoxy Finish And Can Be Cleaned With Alcohol*
- *All With 3-Wire Cord And Plug*
- *All UL Listed*
- *All (except weighted base) Have Convenience Outlet In Base*

A ALL-PURPOSE ADJUSTABLE LAMP

Model 1000. Low-cost lamp is perfect for lighting up your work area. Raises, lowers and turns easily and spring-controlled for steady positioning. Arm extends to 45″ (114.3cm). Shade is vented for rapid heat dissipation. Gray finish. Uses 75-watt incandescent bulb (not incl.) to give 1190 lumens. UL listed. Wt. 5 lbs. (2.27kg).
707R1000. 1-5 ..... **Each 32.50**
6-Up ..... **Each 27.35**

B WEIGHTED BASE LAMP

Model 1025. Same as Model 1015 including 3-wire cord and Circline fluorescent bulb (no convenience outlet). Has 33″ (84cm) reach.
707-1025. 1-5 ..... **Each 71.00**
6-Up ..... **Each 61.20**

C FLUORESCENT/INCANDESCENT LAMP

Model 1020 C/O W/B. Combination 9″ (22.86cm) dia. reflector. Uses 22-watt Circline fluorescent bulb (incl.) and/or up to 75-watt incandescent lamp (not incl.) for glare-free illumination. Vented double-wall reflector. Clamps on work area. True balance 45″ (114.3cm) parallelogram directs light where desired, stays in fixed position. Each lamp has separate switch. 2140 lumens output. Gray finish. 115V. Electrical outlet in base. UL listed. Wt. 10 lbs. (4.54kg).
707-1020. 1-5 ..... **Each 52.75**
6-Up ..... **Each 46.36**
707-1007. Extra FC8T9 Bulb ..... **Each 8.75**

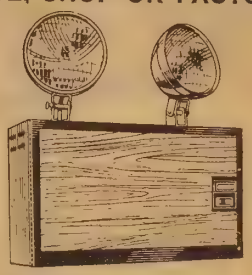
D FLUORESCENT LAMP & MAGNIFIER

Model 1015 C/O W/B. Fluorescent lamp with distortion-free 5″ (12.7cm) magnifier lens—widely used for inspection, close work and miniature component assembly. 3-diopter lens produces 2-to-1 magnification at 13″ (33.02cm). Spring-balanced twin parallelogram arms with 45″ (114.3cm) and 33″ (84cm) reach. Swivels full 360°. Uses 22-watt Circline fluorescent tube (included) and puts out 950 lumens. Electrical outlet in base. Double clamp w/steel base for mounting. UL listed. Gray finish. 6′ (1.82m) cord. Wt. 10 lbs. (4.54kg).
707R1015. 45″ Reach. **1-5** ..... **Each 59.95**
6-Up ..... **Each 52.65**
707-1035. 33″ Reach. **1-5** ..... **Each 57.95**
6-Up ..... **Each 51.00**
707-1007. Extra FC8T9 Bulb ..... **Each 8.75**

E WIDE-ANGLE FLUORESCENT LAMP

Model 1005 C/O W/B. Two-tube fluorescent lamp clamps on anywhere at home, in the office, or on the drafting table. Spring balanced arm stays put. Has full 45″ (114.3cm) reach, swivels 360° to put light where you want it. Gray finish. Two T8-15 watt fluorescent tubes are included, providing output of 1740 lumens. 6′ (1.82m) cord. Exclusive electrical outlet in base lets you plug in small appliances right at the desk. 120VAC. UL Listed. Wt. 10 lbs. (4.54kg).
707R1005. 1-5 ..... **Each 49.83**
6-Up ..... **Each 43.45**
707-1006. Extra T-18 Bulb ..... **Each 3.05**

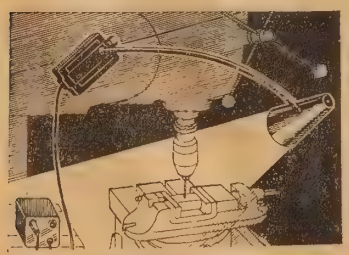
EMERGENCY LIGHTS FOR OFFICE, SHOP OR FACTORY



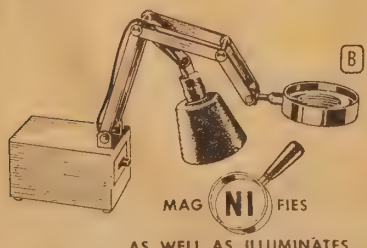
DECORATOR-STYLED EMERGENCY LIGHT

Model 8122A. Provides auxiliary emergency lighting in case of power failure. As soon as 120 VAC power goes off, light goes on. Twin 18 watt sealed beam flood lights operate for two hours, lighting a 7500 square foot area. Powered by a sealed, maintenance-free 12 volt, 8-ampere battery that never needs water or acid. Solid state battery charger and switching circuit for peak dependability. Also features an automatic cut-off to prevent the battery from draining all the way down during a power failure. On-off switch inside unit lets you turn off lights during a daytime power failure and when unit is moved. Housed in an attractive woodgrain finish case that measures 12¾″ w. x 7¼″ h. x 4 ″ d.
724-8122. Shpg. wt. 30 lbs. ..... **Each 150.00**

HI-INTENSITY MINIATURE LAMPS "AIM" THE LIGHT WHERE YOU NEED IT



A Magnetic Base



AS WELL AS ILLUMINATES

Lamp/Magnifier

A MAGNETIC BASE UTILITY LAMP

MODEL 6480. Magnetized base mounts directly on machines, etc. 12″ chromed gooseneck adjusts to any position. 45 footcandles at 12″ (30.5 cm). All-metal; black finish. Separate step-down transformer has on-off switch, pilot light. 5-ft. (1.5 m) cord between lamp, transformer. With #93 bulb. For 115 VAC. Shpg. wt. 3 lbs.
564-6480 ..... **Each 38.50**

MODEL 6480M. As above, but with base plate and two mounting holes for permanent mounting on machines, etc.
564-6481. Shpg. wt. 3 lbs. ..... **Each 38.50**

B HI-INTENSITY LAMP/MAGNIFIER

MODEL 7175. Features 2½″ (6.5 cm) magnifier with 7″ (17.75 cm) focal length for close detail work. Magnifier arm swivels vertically and magnifier rotates on its axis. Independent movement of lamp head and magnifier. Hi-Lo switch for 500 or 250 foot-candles. Measures 2½×2½×10″ (6.5×6.5×25.5 cm) when folded. All metal; nylon feet. With one 6-volt #1133 bulb. Built-in step-down transformer. For 110-120 volts, 60 Hz AC. Lens Power: 2X.
564-7175. Shpg. wt. 3 lbs. ..... **Each 47.50**

HI-INTENSITY LAMP/4½″ MAGNIFIER

MODEL 7176. As above, but with big 4½″ (11.5 cm) diameter lens. Equivalent to 200 watts in high range. With one #1133 6-volt bulb. For 110-120 volts. 60Hz AC.
564-7176. Shpg. wt. 3 lbs. ..... **Each 52.95**



C MAGNETIC BASE LAMP

MODEL 6490. For factory, shop, field. 12″ (30.5 cm) flexible arm twists, turns to virtually any position. Magnetic base; rear hook for hanging to non-magnetic surfaces. Illumination equals 100 W. End-of-cord transformer; #93 bulb.
564R6490. Shpg. wt. 2 lbs. ..... **Each 36.50**

MODEL 5979 SUBMINIATURE HI-INTENSITY LAMP. Two #55 6-V bulbs. 105-130 VAC
564-5979. Shpg. wt. 2 lbs. ..... **Each 22.95**

D "PRO" HI-INTENSITY LAMP

MODEL 5900. Professional lamp offers the ultimate in intensity, color, temperature and mechanical positioning. Five intensities—up to 7000 foot-candles. Plug-in lamp arm swivels 360° vertically and horizontally. AC convenience outlet. All-metal with neutral wrinkle finish; non-scratch nylon feet. Safe, cool low voltage operation. Built-in transformer. With one #1133 bulb. 110-120 V. 60 Hz AC.
564-5900. Shpg. wt. 3 lbs. ..... **Each 88.95**

E ENGINEER'S LAMP

MODEL 7500. The most versatile lamp ever designed for office and industrial use. Has 24″ (61 cm) long plug-in arm with a full 4¼″ (11.5 cm) diameter reflector for extra reach and wide-area illumination. Built-in Hi-Lo intensity switch. Has 110-volt AC "convenience" outlet for plugging in other electrical devices. Built-in step-down transformer for efficient 6-volt operation. With bulb. Styled in black. Shpg. wt. 8 lbs.
564-7500 ..... **Each 44.95**

Transformer Cross-Reference

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Audio Transformers
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Stancor 139
Autotransformers
Stancor 142
Chokes
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CROSS-REFERENCE

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705-0001	6K1VF	140	.....	P-2843	26R39	.....	PS-8416
705-0002	6K2HB	140	R-6B	P-2949	24R00	R-101	PM-8401
705-0005	6K3VG	140	R-113A	P-3150	24R01U	.....	PC-8406
705-0008	6K5HB	140	R-11B	P-2952	24R04	R-102 R-103	PM-8409
705-0013	6K7VG	140	.....	P-3173	24R06U	.....	PC-8411
705-0016	6K9HF	138	.....	P-2944	21F08	.....	.....
705-0017	6K10HF	138	F-16X	P-2946	21F10	S-55 FT-4	P-6466
705-0018	6K11HF	138	F-8X	P-2941	21F60	S-54	P-3062
705-0019	6K12VCP	142	N-3M	P-3161	23V81	R-41	P-5062
705-0020	6K13VCP	142	N-4M	P-3162	23V22	R-42 R-43	P-5064
705-0021	6K14VCP	142	N-5M	P-3163	23V72	R-44	.....
705-0022	6K15VCP	142	.....	P-3164	23V24	R-45	P-6141
705-0025	6K18VCP	142	.....	P-3198	23V48	.....	.....
705-0026	6K19VCP	142	N-55M	P-3199	23V58	R-74	.....
705-0027	6K20VCP	142	.....	.....	23V73	R-46	P-6124
705-0028	6K21VCP	142	N-11M	.....	23V120	R-64	.....
705-0029	6K22VCP	142	.....	.....	23V21	.....	P-5063
705-0032	6K26VF	138	.....	.....	21F72	.....	P-6456
795-0033	6K26VBR	138	.....	P-2947	21F11	.....	P-3064
705-0034	6K27VF	140	.....	.....	26R37	.....	PS-8415
705-0035	6K28HF	140	R-30X	P-2871	26R38	.....	.....
705-0041	6K31VG	140	.....	P-3095	24R27	.....	PC-8414
705-0042	6K32HF	138	F-13X	P-2964	21F21	.....	P-6465
705-0044	6K34VBR	138	.....	P-2948	21F12	.....	P-6308
705-0045	6K35HF	138	F-14X	P-3074	21F09	FT-2 CG-32	P-6134
705-0046	6K36HF	138	F-44X	P-2959	26F67	.....	P-8130
705-0047	6K37HF	138	.....	P-2962	21F51	.....	P-6469
705-0048	6K38VCP	142	.....	.....	23V45	R-72	P-6410
705-0049	6K39HF	138	F-7X	P-3040	21F03	FT-6	P-6467
705-0065	6K48HF	138	.....	.....	21F27	.....	.....
705-0067	6K49VG	140	.....	P-3147	24R11U	.....	PC-8418
705-0077	6K54VG	140	.....	P-3160	24R02U	.....	PC-8408
705-0081	6K56VG	140	R-14A	.....	.....	R-112	PC-8405
705-0086	6K62VBR	138	.....	.....	21F07	.....	P-6432
705-0087	6K63VBR	140	.....	.....	23V60	.....	RT-201
705-0088	6K64VBR	140	.....	.....	23V61	.....	RT-202
705-0089	6K65VBR	140	.....	.....	23V62	.....	RT-204
705-0090	6K66VBR	140	.....	.....	23V63	.....	RT-206
705-0091	6K67VBR	140	.....	.....	23V64	.....	RT-208
705-0093	6K69HF	142	N-1X	.....	23V79	.....	.....
705-0094	6K70VBR	138	.....	.....	21F13	.....	P-6135
705-0096	6K72VBR	138	.....	.....	21F25	.....	P-6309
705-0098	6K74VBR	138	.....	.....	21F16	.....	P-6138
705-0099	6K75VBR	138	F-23U	.....	21F61	.....	P-5016
705-0100	6K76VBR	138	.....	.....	21F28	.....	P-6139
705-0101	6K77VFL	141	.....	.....	23V50	.....	P-6375
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705-0104	6K80VBR	141	.....	.....	23V53	.....	P-6378
705-0107	6K83HF	138	F-52X	.....	26F60	.....	P-8190
705-0110	6K86HF	138	F-1X	.....	21F120	FT-1	.....
705-0113	6K88VG	140	R-4A	.....	24R50	.....	.....
705-0114	6K89HF	138	F-40X	.....	21F82	.....	.....
705-0120	6K93VG	138	F-22A	.....	21F77	.....	.....
705-0121	6K94HF	138	F-25X	.....	.....	.....	.....
705-0123	6K96HF	138	F-41X	.....	21F83	.....	P-8357
705-0126	6K100HF	140	F-94X	.....	23V115	.....	.....
705-0127	6K101HF	140	F-90X	.....	23V116	.....	TP-2
705-0128	5K102HF	140	F-91X	.....	23V117	.....	TP-3
705-0129	6K103HF	140	F-93X	.....	23V118	.....	.....
705-0130	6K104VG	140	F-92A	.....	23V119	.....	TP-4
705-0131	6K105VBR	140	F-47U	.....	23V100	.....	.....
705-0132	6K106VBR	140	F-48U	.....	23V101	.....	P-8198
705-0133	6K107VBR	140	F-60U	.....	23V103	.....	.....
705-0134	6K108VBR	140	F-61U	.....	23V104	.....	.....
705-0135	6K109VBR	140	F-67U	.....	23V105	.....	.....
705-0136	6K110HF	138	.....	.....	.....	.....	P-8358
705-0137	6K111VG	140	R-29A	.....	.....	.....	.....
705-0138	6K112HF	142	N-51X	.....	.....	R-72	.....
705-0139	6K113HF	138	F-45X	.....	.....	.....	.....
705-0144	6K119VBR	141	.....	.....	.....	.....	P-6379
705-0145	6K120VBR	138	.....	.....	.....	.....	P-6433
705-0147	6K122VBR	138	.....	.....	.....	.....	P-6458
705-0148	6K123VG	138	.....	.....	.....	.....	P-6461
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705-0158	6K133VG	138	.....	.....	.....	.....	TP-1
705-0159	6K134VBR	138	F-29U	.....	.....	S-62 CG-124	.....
705-0164	6K139VCP	142	N-54M	.....	.....	.....	.....
705-0165	6K140HF	142	N-68X	.....	.....	.....	.....
705-0171	6K146HB	140	R-73B	.....	.....	.....	.....
705-0200	6K183VFL	141	.....	.....	.....	.....	P-8615
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705-0240	6K187VBR	141	.....	.....	.....	.....	P-8619
705-0250	6K188HF	142	.....	.....	.....	.....	P-6413
705-0270	6K190HF	141	.....	.....	.....	.....	P-8391
705-0280	6K191HF	138	.....	.....	.....	.....	P-8388
705-0290	6K192HF	138	.....	.....	.....	.....	P-8384
705-0545	6T48HF	138	.....	.....	TR-1	.....	TA-52
705-0549	6T52VF	138	.....	.....	TR-63	.....	TA-57
705-0551	6T54HF	138	.....	.....	TR-66	.....	TA-59
705-0801	6W2HFL	139	.....	A-3013	24S74	.....	A-8105
705-0802	6W4HFL	139	.....	A-3014	.....	.....	.....
705-0804	6W6HFL	139	.....	A-3016	.....	.....	.....
705-0823	6W29HFL	139	.....	A-3005	24S75	.....	A-8101
705-0828	6W34HF	139	S-2X	A-2928	24S50	.....	A-3876
705-0862	6W68HF	139	.....	.....	20D23	.....	A-4713
705-1115	6X15HF	139	C-8X	.....	20C48	R-18	C-1709
705-1121	6X21VG	139	.....	.....	20C54	.....	C-1421
705-1129	6X29HBR	139	.....	.....	20C00	.....	C-2685
705-1130	6X30HBR	139	.....	.....	20C01	.....	C-2686
705-1131	6X31HBR	139	.....	.....	20C03	.....	C-2688
705-1133	6X33VBR	139	C-47U	.....	20C25	.....	C-2690
705-1134	6X34HF	139	C-40X	.....	25C81	.....	C-2707
705-1135	6X35HF	139	C-27X	.....	26C77	.....	C-2343

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927 2175	144	2PF1010	116B	W10MT	VT8F	.....
927-2303	144	3PN1010	3PN116B	W10MT3	VT8FC	9T92A87
927-6120	144	1020	216BU	W10H	VT8H	9T92A13
927-6210	144	1210	117BU	.....	VT8N	9T92A10
927-6125	144	1210CT	117BT	.....	.....	9T92A10G2
927-2305	144	3PN1210	3PN117B	.....	.....	.....
927-6130	144	1220CT	217BT	.....	.....	9T92A14G2
927-7501	144	1510	126U	.....	.....	9T92A27
927-6155	144	1510C	126	.....	.....	.....
927-2339	144	3PN1510	3PN126	.....	.....	9T92Y88
927-3171	144	171	.....	.....	VT1	.....
927-2171	144	2PF171	2PF10	.....	VT2F	.....
927-3201	144	201	.....	.....	VT02	.....
927-3225	144	221	10B	.....	.....	.....
927-3230	144	221-3	10B-3	.....	.....	.....
927-3251	144	251	.....	.....	.....	9T92A1
927-3291	144	291	.....	.....	VT3	.....
927-3375	144	371	.....	W2	VT4	.....
927-5501	144	501	21	W5	.....	9T92A5
927-2170	144	2PF501	.....	W5MT	.....	.....
927-2302	144	3PN501	.....	W5MT3	.....	9T92A91
927-6010	144	1010	116BU	W10	VT8	9T92A9
927-6011	144	1010CT	116BT	W10M	.....	9T92A9G2
927-6015	144	1010-3	116BU-3	W10G-3	VT8-3	9T92A21
927-7504	144	1510-3	126U-3	.....	.....	9T92Y33
927-7507	144	1520	226U	W20H	.....	9T92A30
927-8001	144	2510	136U	W20	VT20	9T92A28
927-6160	144	2510C	136	.....	.....	.....
927-8006	144	2510CT	136BT	W20M	VT20B	9T92A28G2
927-2309	144	3PN2210	3PN136B	W20MT3	.....	9T92Y89
927-8500	144	2520	236BU	W20H	.....	9T92A30
927-6165	144	2520C	236B	.....	.....	.....
927-2330	144	3PN2520	3PN236B	W20HMT3	.....	9T92A97
927-6170	144	5020C	1256D	.....	.....	9T92A51G2
927-6135	144	SQ1210	Q117U	.....	.....	.....
927-6140	144	SQ1010	Q116U	.....	.....	.....
927-6150	144	SQ1220	Q217U	.....	.....	.....
927-8004	144	2510-3	136BU-3	W20G-3	VT20-3	9T92Y34

Allied® Transistor and Filament Transformers

Allied's own line of top-quality transformers. Compare prices and specs—you're money ahead with Allied transformers. Send us your specifications—let Allied handle your transformer needs.



TRANSISTOR OUTPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Impedance, Ohms Pri.	Impedance, Ohms Sec.	Res, Ohms Pri.	Res, Ohms Sec.	Watts	Size H x W x D Inches	Mtg. Ctrs. (MW x MD) Inches	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0527	6T28PC	A	500 CT	4, 8, 16	75.3	3.55	.150	2 1/32 x 1 3/16 x 3/16	2 5/32	6.98	6.28	5.65	4.23
705-0524	6T25HF	A	20 CT	8	.55	.35	10	1 7/16 x 2 3/16 x 1 3/4	2	4.95	4.46	4.01	3.00
705-0549	6T52VF	B	100 CT	3.2, 8, 16	6.6	1.5	10	2 5/16 x 2 7/16 x 2	2 3/4	6.19	5.57	5.01	3.75

TRANSISTOR INTERSTAGE TRANSFORMERS

705-0511	6T11PC	A	500 CT	50K	76.8	5135	.150	2 1/32 x 1 3/16 x 3/16	2 5/32	6.19	5.57	5.01	3.75
705-0544	6T46PC	A	1500	500 CT	104	46.5	.150	2 1/32 x 1 3/16 x 7/16	2 5/32	7.20	6.48	5.83	4.37
705-0545	6T48HF	A	500 CT	500 CT	40	55	.300	1 5/16 x 1 5/8 x 3/4	1 3/8	6.98	6.28	5.65	4.23

TRANSISTOR DRIVER TRANSFORMER

705-0551	6T54HF	A	500 CT	200 CT	36.5	15.5	.500	1 1/4 x 2 1/16 x 1 1/4	1 3/4	5.18	4.66	4.19	3.14

TRANSISTOR POWER TRANSFORMERS

*For Bridge Rectifier—Identical Dual Plate Supplies. Primary for 117 V, 60 Hz AC.

Stock No.	Mfr's Type	Fig.	Plate Supply AC V	Plate Supply DC mA	Size H x W x D Inches	Mtg. Ctrs. (MW x MD) Inches	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0154	6K 129VG	C	80 CT	1200	3 1/2 x 2 15/16 x 3 9/16	2 1/4 x 2 3/8	13.48	12.13	10.91	8.18
705-0158	6K 133VG	C	13 or 18*	900	3 1/8 x 2 5/8 x 2 15/16	2 x 1 15/16	6.66	5.71	5.31	4.69

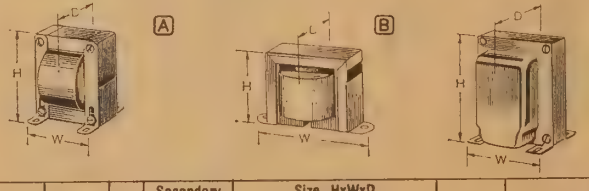
FILAMENT TRANSFORMERS

Quality filament transformers provide reliable operation in a variety of applications. Primaries for 115-125 volts 50-60 Hz. Type with ** has tapped primary to produce lower voltages. Types with * have primary tap for 107-volt operation. Types with ‡ have an electrostatic shield.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Insul., rms V	Size HxWxD Inches	Mtg. Ctrs. Inches	EACH 1-49	EACH 10-59	EACH 50-99	Bulk Packed 100-Up
705-0110	6K86HF	A	2.5 CT	3.0	1500	1 11/16 x 2 13/16 x 1 7/8	2 3/8	5.38	4.84	4.35	3.26
705-0049	6K39HF	A	5.0 CT	3.0	2500	2x3 1/4x2	2 13/16	6.63	5.97	5.37	4.03
705-0018	6K11HF	A	5.0 CT	6.0	2500	2 3/8 x 3 5/8 x 2 1/4	3 1/8	9.56	8.60	7.74	5.81
705-0145	6K120VBR	D	5.0 CT	15.0	2500	3x2 1/2x3	2x2 1/4	14.60	13.14	11.82	8.87
705-0086	6K62VBR	D	5.0 CT	21.0	2500	3 3/4 x 3 1/8 x 3 1/4	2 1/2 x 2 1/4	16.45	14.81	13.32	9.99
705R0042	6K32HF	A	6.3 CT	0.6	1500	1 3/8 x 2 3/8 x 1 5/8	2	5.60	3.32	2.99	2.35
705R0016	6K9HF	A	6.3 CT	1.0	1500	1 5/8 x 2 13/16 x 1 3/4	2 3/8	3.80	3.42	3.00	2.31
705-0045	6K35HF	A	6.3 CT	1.2	3000	1 5/8 x 2 13/16 x 1 7/8	2 3/8	5.53	3.29	2.97	2.32
705-0107	6K83HF	A	6.3	1.2	5000	2x3 1/4x1 7/8	2 13/16	7.12	6.41	5.76	4.32
705-0017	6K10HF	A	6.3 CT	3.0	2500	2x3 1/4x2 3/8	2 13/16	7.96	4.73	4.27	3.33
705-0032	6K26VF	B	6.3 CT	6.0	2000	3 1/8 x 3 9/16 x 2 1/2	3 1/8	10.67	9.60	8.64	6.48
705-0033	6K26VBR	D	6.3 CT	6.0	2500	3x2 1/2x2 1/4	2x2	11.70	10.53	9.47	7.10
705-0044	6K34VBR	D*	6.3 CT	10.0	2500	3 3/8 x 2 13/16 x 2 7/8	2 1/4 x 2 1/8	11.85	10.55	9.51	7.45
705-0120	6K93VG	C	6.3 CT	20.0	2000	3 7/8 x 3 5/16 x 4 1/8	2 1/2 x 3	21.25	19.13	17.21	12.90
705-0096	6K72VBR	D‡	6.3 CT	20.0	2500	4 5/8 x 3 3/4 x 2 7/8	3x2 3/8	15.64	14.08	12.67	10.11
705-0098	6K74VBR	D‡	7.5 CT	8.0	2500	3 3/4 x 3 1/8 x 2 7/8	2 1/2 x 2 1/4	10.35	9.32	8.38	7.86
705-0099	6K75VBR	D‡	10.0 CT	4.0	2500	3 3/8 x 2 13/16 x 2 3/4	2 1/4 x 2 1/8	12.89	11.60	10.44	7.83
705-0147	6K122VBR	D‡*	10.0 CT	5.0	2000	3x2 1/2x4 3/4	2x2 1/8	13.24	11.92	10.72	6.04
705-0100	6K76VBR	D‡	10.0 CT	8.0	2500	3 3/4 x 3 1/8 x 3	2 1/2 x 2 3/8	13.91	12.52	11.26	8.45
705-0148	6K123VG	C	10.0 CT	10.0	2000	3 7/8 x 3 1/4 x 3 3/4	2 1/2 x 2 1/2	14.58	13.13	11.81	11.09
705-0159	6K134VBR	D**	12-11-10 CT	11.0	3000	4 1/8 x 3 7/16 x 3 1/8	2 3/4 x 2 1/2	17.63	15.87	14.28	13.19
705R0121	6K94HF	A	12.6 CT	1.5	1500	2x3 1/4x2	2 13/16	7.00	6.30	5.67	4.25
705R0046	6K36HF	A	12.6 CT	2.0	1500	2x3 1/4x2 1/4	2 13/16	7.55	4.49	4.06	3.17
705R0136	6K110HF	A	12.6 CT	3.0	1500	2 5/16 x 3 11/16 x 2 3/8	3 1/8	8.77	5.22	4.70	3.68
705R0139	6K113HF	A	24.0 CT	1.0	1500	2x3 1/4x2	2 13/16	7.75	6.98	6.28	4.71
705R0047	6K37HF	A	25.2	1.0	1500	2x3 1/4x2 1/8	2 13/16	7.29	4.34	3.91	3.16
705R0123	6K96HF	A	25.2 CT	2.0	1500	2 5/8 x 4x2 3/8	3 9/16	11.51	6.87	6.19	4.84
705-0065	6K48HF	A	26.5 CT	0.6	3000	2x3 1/4x2	2 13/16	5.20	4.68	4.21	3.16
705R0114	6K89HF	A	26.8 CT	1.0	1500	2x3 1/4x2 1/8	2 13/16	9.29	8.36	7.52	5.64

SINGLE-SECONDARY FILAMENT TRANSFORMERS

Broad line of commercial grade transformers. All units designed and built to meet the exacting requirements of EIA for electrical tolerances, dielectric strength, temperature rise and construction. All insulated with class A materials. 105°C maximum operating temperature. All have center tapped secondaries except types P4026 and P6469. All have 115VAC, 50-60 Hz primary. (*) Indicates units with 107 V primary tap for low line voltage.



Stock No.	Mfr's Type	Fig.	Secondary Volts	Secondary Amps	Size, HxWxD In	Size, HxWxD CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk 100-Up
928-2012	P4026	B	2.5	1.5	1 5/8 x 2 7/8 x 1 5/8	4.13x7.30x4.13	1	6.15	3.66	3.30	2.58
928-3041	P6492	C	5.0	30.0	4 11/16 x 3 3/4 x 4	11.91x9.53x10.16	7 1/2	23.01	20.53	18.51	14.46
928-4035	P8385	B	6.3	.3	1 1/4 x 2 1/8 x 1 3/8	3.18x5.40x3.49		5.53	3.28	2.96	2.32
928-3027	P6465	B	6.3	.6	1 5/8 x 2 5/8 x 1 1/2	3.49x6.03x3.18	1/2	5.90	3.49	3.15	2.47
928-2066	P6134	B	6.3	1.2	1 5/8 x 2 7/8 x 1 7/8	4.13x7.30x4.76	1	5.82	3.46	3.12	2.44
928-3028	P6466	B	6.3	3.0	2x3 1/4x2 1/8	5.08x8.26x5.40	1 1/2	8.38	4.98	4.49	3.51
928-2080	P6308*	A	6.3	10.0	3 7/16 x 2 13/16 x 2 5/8	8.73x7.14x6.67	3 1/2	12.47	11.10	10.01	7.84
928-2070	P6139	A	10.0	8.0	3 13/16 x 3 1/8 x 3	9.68x7.94x7.62	5	14.59	12.99	11.72	9.17
928-4034	P8384	B	12.6	1.0	2x3 1/4x1 3/4	5.08x8.26x4.45	1	7.12	4.22	3.81	2.99

Stock No.	Mfr's Type	Fig.	Secondary Volts	Secondary Amps	Size, HxWxD In	Size, HxWxD CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk 100-Up
928-3060	P8130	B	12.6	2.0	2x3 1/4x2 1/8	5.08x8.26x5.40	1 1/2	7.95	4.73	4.27	3.34
928-4017	P8358	B	12.6	3.0	2 3/8 x 3 3/4 x 2 1/4	6.03x9.53x5.72	1 3/4	9.23	5.49	4.95	3.87
928-3031	P6469	B	25.2	1.0	2x3 1/4x2 1/8	5.08x8.26x5.40	1 1/2	7.67	4.57	4.12	3.22
928-4016	P8357	B	25.2	2.0	2 5/8 x 4x2 1/4	6.67x10.16x5.72	2 1/4	12.12	7.23	6.52	5.09
928-3078	P8180	B	52.2	1.0	2x3 1/4x2 1/8	5.08x8.26x5.40	1 1/2	7.70	4.58	4.13	3.23
928-4038	P8388	B	25.2	2.8	2 5/8 x 4x2 1/4	6.67x10.16x5.72	2 1/4	14.30	8.53	7.69	6.00
SINGLE-SECONDARY FILAMENT											
705-0280	6K191HF	B	25.2	2.8	2 5/8 x 4x2 1/4	6.67x10.16x5.72	2 1/4	13.58	8.10	7.31	5.70
705-0290	6K192HF	B	12.6	1.0	2x3 1/4x1 3/4	5.08x8.26x4.45	1	6.76	4.01	3.62	2.84

See Page 2 for the Allied Electronics Facility Nearest You

Filter Chokes, Power, Rectifier & Audio Transformers

ALLIED'S OWN FILTER CHOKES

Rated at 10V, 60 Hz with max. DC in winding. All —15%, +50% tol. 1500-V rms insulation, except *3000V. †Amperes. §Tapped for 8 H @ 150 mA or 4 H @ 200 mA.

Stock No.	Mfr's Type	Fig.	Henries	mA	Ohms	Size H x W x D Inches	Mtg. Ctrs. Inches	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-1131	6X31HBR	A	.01	12.5†	.11	3½x4⅛x3	3⅜x2⅜	13.72	12.35	11.12	9.26
705-1130	6X30HBR	A	.025	4†	.425	2⅞x3⅜x2¼	2⅜x2⅛	12.84	11.56	10.41	7.80
705-1129	6X29HBR	A	.035	2†	.75	2⅜x2⅝x2½	2⅛x2	9.27	8.34	7.51	5.63
705-1133	6X33VBR	B	.3/.075	1.0/2.0†	3/.75	3½x2⅞x3$^{3}/_{16}$	2¼x2$^{1}/_{16}$	10.99	9.89	8.91	6.68
705-1134	6X34HF	C	.32	600	10	2x3¼x2¼	2$^{13}/_{16}$	5.73	5.16	4.65	3.48
705-1135	6X35HF	C	.70	290	30	1$^{1}/_{16}$x2$^{13}/_{16}$x1½	2⅜	3.71	3.34	3.01	2.25
705-1115	6X15HF	C	8Ω	85	260	2x3¼x2	2$^{13}/_{16}$	4.73	4.26	3.83	2.87
705-1121	6X21VG	D	12.0*§	100	145	3x2⅝x2$^{13}/_{16}$	2x1¾	9.56	8.60	7.74	5.80

MULTI-PURPOSE FILTER CHOKES

All ratings are with maximum DC in winding. Tested at 1500 volts RMS. Designed for both input and smoothing applications.

Stock No.	Mfr's Type	Fig.	Inductance H	mA	DC Res. Ohms	Size, H x W x D In	Size, H x W x D CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk 100-Up
928-0072	C2687	E	.010	8A	.15	3$^{1}/_{16}$x3x3¾	8.10x 7.62x9.53	5½	13.24	11.83	10.66	8.32
928-0073	C2688	E	.010	12½A	.11	3½x4½x2⅞	8.89x10.48x7.30	6	16.30	14.52	13.09	12.24

(F) RECTIFIER TRANSFORMERS

Stock No.	Mfr's Type	Range of AC Volts	Max. DC Output Load, Resistive A	Max. DC Output Load, Resistive B	Max. DC Output Load, Capacitive A	Max. DC Output Load, Capacitive B	Size, H x W x D In	Size, H x W x D CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk 100-Up
928-8001	RT-201	11.7-29.4	11.2V@2.0A	23.0V@1.25A	13.8V@2.0A	30.0V@1.25A	3½x2½x2¾	7.94x6.35x 6.99	2½	10.42	9.24	8.34	6.54
928-8002	RT-202	12.0-29.8	11.1V@4.0A	24.3V@2.0A	14.7V@4.0A	33.0V@2.0A	3$^{7}/_{16}$x2$^{13}/_{16}$x2¾	8.73x7.14x 6.99	4	14.33	12.71	11.47	8.99
928R8003	RT-204	11.7-29.2	12.0V@8.0A	24.0V@4.0A	14.5V@8.0A	32.4V@4.0A	3$^{13}/_{16}$x3⅜x3½	9.68x7.94x 8.89	6¼	19.79	17.60	15.88	12.43
928-8004	RT-206	12.0-29.7	11.5V@12.0A	24.0V@6.0A	14.4V@12.0A	32.0V@6.0A	4⅜x4$^{7}/_{16}$x4	10.63x11.27x10.16	9¼	26.89	24.01	21.64	16.89
928-8005	RT-208	12.2-29.2	11.4V@15.0A	23.7V@8.0A	14.8V@15.0A	32.5V@8.0A	4⅜x3¾x5	11.58x 9.52x12.7	12½	34.82	31.06	28.00	21.88
928-8009	RT-402	23.0-58.0	25.0V@4.0A	51.5V@2.0A	33.5V@4.0A	72.5V@2.0A	3$^{13}/_{16}$x3⅛x4½	9.68x7.94x11.43	7	21.16	18.87	17.01	13.29

PLATE-FILAMENT POWER TRANSFORMERS

CT 6.3 V filament windings except *for 6AX5, 6X4, 6X5 tubes or with selenium rectifiers. †½ wave. Primaries, 117 V 60 Hz. ‡For AC powered photoflash circuits, 105/115/125 V primary, no center tap.

Stock No.	Mfr's Type	Fig.	Plate VCT	Plate mA	Filaments V @ A	Filaments V @ A	Size, H x W x D In	Size, H x W x D CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk 100-Up
928-7215	*PS-8415	H	†125	15	.....	6.3 @ .6	2x2⅜x1⅝	5.08x6.03x4.13	¾	7.15	4.23	3.82	3.00
928-5000	*PA-8421	G	†125	50	.....	6.3 @ 2	2¼x3¾x2⅛	5.72x9.53x5.40	1½	10.28	6.11	5.51	4.31
928-3013	‡P-6425	H	380	20	.....	.....	2$^{5}/_{16}$x2$^{13}/_{16}$x2	5.87x7.46x5.08	1⅛	9.28	5.51	4.97	3.89

ALLIED AUDIO TRANSFORMERS

INTERSTAGE AUDIO TRANSFORMER

Maximum DC permissible in primary is 30 mA. Single plate to P-P grid. Turns ratio: 1:1. Mounting centers, 2⅜". Av. Shpg. wt. ¾ lb.

Stock No.	Mfr's Type	Fig.	Impedance, Ohms Primary	Impedance, Ohms Sec.	Size HxWxD	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0862	6W68HF	J	10K	10K CT	1⅝x2⅞x1⅝"	5.40	4.86	4.37	3.27

CONSTANT-VOLTAGE 70.7-V LINE-TO-VOICE-COIL TRANSFORMERS

Secondary impedance: 4, 8, 16 ohms except *4, 8 ohms only. Shpg. wt. ¾ lb.

Stock No.	Mfr's Type	Fig.	Watt. Taps	Max. W.	Size HxWxD	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk 100-Up
705-0801	6W2HFL	K*	5, 2.5, 1.25, .62, .31	5	1⅜x2⅜x1½"	2"	7.50	4.43	4.00	3.14
705-0802	6W4HFL	K	10, 5, 2.5, 1.25, .62	10	1⅝x2$^{13}/_{16}$x1⅝"	2⅜"	6.13	5.52	4.47	3.35
705-0804	6W6HFL	K	24, 12, 6, 3, 1.5, .75	24	2¼x3$^{1}/_{16}$x2¼"	3⅛"	9.13	8.22	7.39	5.54

STANDARD LINE-TO-VOICE-COIL TRANSFORMER

Nominal Watts 5. Shpg. wt. 1¼ lbs.

Stock No.	Mfr's Type	Fig.	Impedance, Ohms Primary	Impedance, Ohms Secondary	Size HxWxD Inches	Mtg. Ctrs. In.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0823	6W29HFL	K	500	4. 8	1⅜x2⅜x1½"	2	4.62	2.76	2.49	1.96

STANDARD AUDIO OUTPUT TRANSFORMERS

For coupling single output tube to speaker. Av. shpg. wt. ¾ lb. 2 in. mtg. centers.

Stock No.	Mfr's Type	Fig.	Primary Impedance	Sec. Imp.	Watts Audio	Size HxWxD	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0828	6W34HF	L	2000 @ 60 mA	4	5	1⅜x2⅜x1⅜"	1.83	1.70	1.49	1.43

ALL-PURPOSE AUDIO TRANSFORMERS

LINE TO VOICE COIL

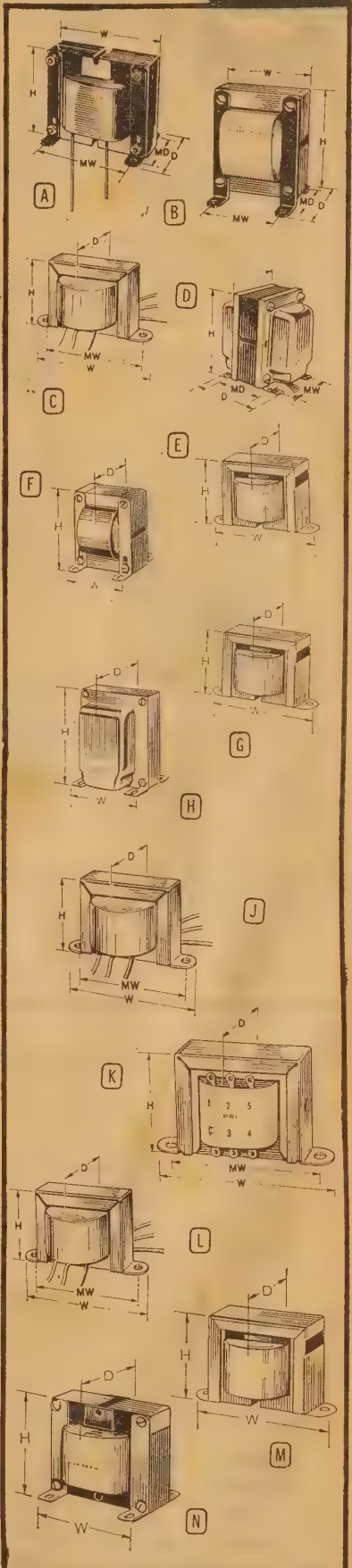
Audio -5 watts. Rms test -1000 V. Shpg. wt. ½ lb.

Stock No.	Mfr's Type	Fig.	Impedance (Ohms) Pri.	Impedance (Ohms) Sec.	DC Res. (Ohms) Pri.	DC Res. (Ohms) Sec.	Response Hz=3 DB	Size, HxWxD In	Size, HxWxD CM	MW	EACH 1-9	EACH 10-24	Bulk Pkd. 25-99	Bulk Pkd. 100-Up
928-0033	A-8101	M	500	3.2/6-8	40	0.5	60-20000	1⅜x2⅜x1½	3.49x6.03x3.81	2	4.87	2.90	2.62	2.05

70.7 VOLT LINE TO VOICE COIL

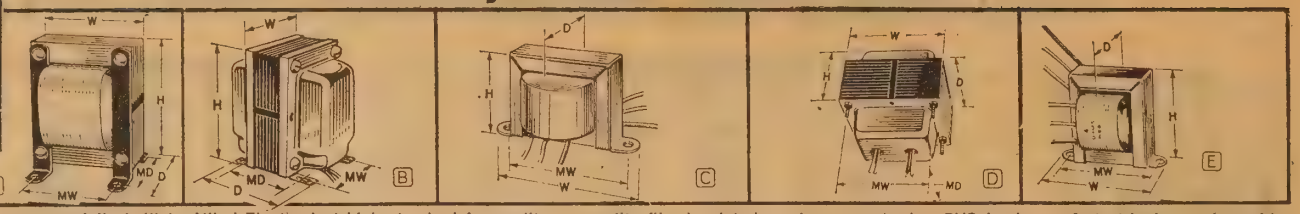
Power steps (watts) -5/2.5/1.25/.621/.31. Shpg. wt. ½ lb.

928-0037	A-8105	N	1000/2000/4000/8000/16000	4/8	950	0.6	50-20000	1⅜x2⅜x1½	3.49x6.03x3.81	2	7.90	4.66	4.21	3.31



Allied® "Best Buy" Power Transformers

TRANSFORMERS



Allied transformers are specially built to Allied Electronics' high standard for quality, stability and long-term performance. Laminated cores of silicon iron electrical grade steel. Insulation is non-corrosive Class A. Temperature rating 105°C continuous operation. Superior permeability at high inductances, with low coil loss. Coils of high quality film insulated copper magnet wire. PVC leads are fast stripping and provide protection from oil, ozone and abrasion. Cold rolled steel covers provide protection to coils. Finished in semi-gloss enamel for good appearance. Compare prices and specifications and you will find that Allied transformers are your best buy.

ALLIED OSCILLOSCOPE POWER TRANSFORMER

For use with 2x2A rectifiers in half-wave power supplies. Requires primary input voltage of 117 volts, 60Hz AC. Secondary output shown in table below.

Stock No.	Mfr's Type	Fig.	Plate Supply		Rect.		Other Secondary Outputs	Size HxWxD	EACH			Bulk Packed 100-Up
			AC Volts	DC mA	Volts	Amps			1-9	10-49	50-99	
705-0151	6K126VG	B	2400	5.0	2.5	2.0	2.5v @2.0A	4¼x3⁹⁄₁₆x3¹³⁄₁₆"	21.57	19.42	17.47	13.10

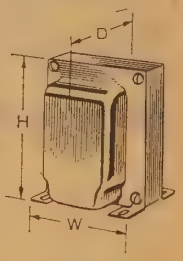
ALLIED'S OWN POWER TRANSFORMERS

For new equipment or replacement use. All types listed are shielded except those indicated by #. Have 8" flexible color-coded leads for easy installation. Plate windings are center-tapped except *half-wave type. 6.3 volt windings are center-tapped except † not center-tapped. ‡Electrostatic shield. All have primaries for operation from 110-120 volt, 50 to 60 Hz AC, except for §60 Hz AC only.

Stock No.	Mfr's Type	Fig.	Plate		Filaments		Case Size HxWxD Inches	Mtg. Size MWxMD Inches	EACH			Bulk Packed 100-Up
			VCT	mA	5 V (Amps)	6.3 V (Amps)			1-9	10-49	50-99	
705-0034	6K27VF	E#§	125*	15	..	0.6†	2x2³⁄₈x1⁹⁄₁₆	2	6.21	5.59	5.03	3.77
705-0035	6K28HF	C#	125*	50	..	2.0†	2⁹⁄₁₆x3¹¹⁄₁₆x2¹⁄₄	3¹⁄₈	8.48	7.63	6.86	5.15
705-0171	6K146HB	D‡§	135*	200	..	5.5	2¹⁄₈x3⁹⁄₃₂x2¹³⁄₁₆	2¹³⁄₁₆x2¹⁄₄	15.90	14.31	12.87	9.65
705-0137	6K111VG	B‡	230	40	..	1.5	2³⁄₄x2⁹⁄₃₂x2¹⁄₂	1³⁄₄x1⁵⁄₈	11.93	10.74	9.66	7.25
705-0001	6K1VF	E#§	250	25	..	1.0†	2³⁄₈x2⁷⁄₈x1⁷⁄₈	2³⁄₈	6.30	5.67	5.10	3.80
705-0067	6K49VG	B	460	50	..	2.5†	3⁹⁄₁₆x2⁵⁄₈x2¹¹⁄₁₆	2x1³⁄₄	11.75	10.58	9.52	7.14
705-0002	6K2HB	D	480	40	2	2.0	1¹³⁄₁₆x3x2¹⁄₂	2¹⁄₂x2	11.70	10.53	9.47	6.80
705-0113	6K88VG	B	500	40	..	2.0	2³⁄₄x2¹⁄₄x2³⁄₄	1²⁵⁄₃₂x1⁷⁄₈	10.33	9.30	8.37	6.28
705-0081	6K56VG	B	540	120	3	3.5	3¹⁵⁄₁₆x3¹⁄₄x3¹⁄₂	2¹⁄₂x2¹⁄₄	12.86	11.57	10.42	9.38
705-0005	6K3VG	B	650	40	2	2.0	3³⁄₁₆x2⁵⁄₈x2¹¹⁄₁₆	2x1¹¹⁄₁₆	12.60	11.34	10.20	7.65
705-0077	6K54VG	B	680	70	2	2.5	3⁹⁄₁₆x2¹⁵⁄₁₆x3⁵⁄₁₆	2¹⁄₄x2³⁄₁₆	14.60	13.14	11.82	8.87
705-0008	6K5HB	D	700	90	3	3.5	2¹⁄₂x3⁹⁄₃₂x2¹³⁄₁₆	2¹³⁄₁₆x2¹⁄₄	16.70	15.03	13.53	10.15
705-0013	6K7VG	B	750	150	3	5.0	3¹⁵⁄₁₆x3¹⁄₄x4³⁄₈	2¹⁄₂x3¹⁄₁₆	21.65	19.49	17.54	13.15
705-0041	6K31VG	B	1200	200	3	3†, 3†	4⁵⁄₈x3⁷⁄₈x4¹⁄₄	3x3¹⁄₁₆	21.04	18.94	17.05	14.82
705-0155	6K130VG	B§	1840	250 ind. 200 cap.			4⁵⁄₈x3⁷⁄₈x5¹⁄₁₆	3x3¹⁵⁄₁₆	27.67	24.90	22.41	16.80

OSCILLOSCOPE POWER TRANSFORMERS

Well-built transformers for original design or replacement use. For 2x2 rectifiers in conventional half-wave high-voltage supplies. Primary voltage 117 V, 60 Hz. P-8150 secondaries (2): 1550 V AC at 1.5 mA; 2.5 V AC at 1.75 A. P-8151 secondaries (3): 2400 V AC at 5 mA; 2.5 V AC at 2 A; 2.5 V AC at 2 A.



Stock No.	Mfr's Type	Secondaries (see above)	Size, HxWxD		Wt. Lbs.	EACH			Bulk
			In	CM		1-9	10-24	25-99	100-Up
928-3061	P-8150	2	3¹⁄₁₆x3x2¹⁄₂	7.78x7.62x6.35	2	12.41	11.03	9.95	7.79
928-3062	P-8151	3	4⁹⁄₁₆x3⁹⁄₁₆x3⁷⁄₈	10.95x8.41x9.84	6½	21.96	19.41	17.29	13.78

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TUBE CHECKER TRANSFORMER

Multiple-secondary type for use in tube testers. Primary: 60 Hz. Secondary output volts: 1.1 / 1.4 / 1.5 / 2.0 / 2.5 / 3.0 / 3.3 / 4.0 / 5.0 / 6.3 / 7.0 / 7.5 / 12 / 20 / 25 / 30 / 35 / 50 / 70 / 85 / 110 / 117. Mounting centers 3⁹⁄₁₆". With data sheet.

Stock No.	Mfr's Type	Fig.	Primary Input Volts	Size H x W x D	Mtg. Ctrs.	EACH			Bulk Packed
						1-9	10-49	50-99	100-Up
705-0140	6K114HF	C	125/115/105	2⅝x4x3¹⁄₁₆",	3⁹⁄₁₆"	20.60	18.54	16.68	12.51

ALLIED LOW-VOLTAGE RECTIFIER TRANSFORMERS

Primary, 115 V, except † 110-120. * Tapped primary for lower voltages.

Stock No.	Mfr's Type	Fig.	Secondary		Case Size HxWxD	Mtg. Ctrs.	EACH			Bulk Packed 100-Up
			Volts	Amps			1-9	10-49	50-99	
705-0126	6K100HF	C*	10/20CT/40CT	.035	1⁷⁄₁₆x2³⁄₄x1⅜"	2"	7.18	6.46	5.81	4.36
705-0127	6K101HF	C*	10/20CT/40CT	.100	1¹¹⁄₁₆x2¹³⁄₁₆x1⅝"	2¾"	6.30	5.67	5.10	3.83
705-0128	6K102HF	C*	10/20CT/40CT	.300	2⁵⁄₁₆x3¹¹⁄₁₆x2"	3⅛"	7.65	6.89	6.20	4.65
705-0129	6K103HF	C*	10/20CT/40CT	.750	2⅜x4x2¾"	3⁹⁄₁₆"	11.83	10.65	9.58	7.18
705-0130	6K104VG	B*	10/20CT/40CT	1.0	3⅛x2⅝x3⅛"	2x2¼"	15.26	13.73	12.35	9.26
705-0131	6K105VBR	A	0/17/18	3.0	3⅛x2⁹⁄₁₆x2⅞"	2x2⅜"	12.98	11.68	10.51	7.88
705-0132	6K106VBR	A	0/17/18	6.0	3¹³⁄₁₆x3⁹⁄₁₆x3¼"	2½x2⅝"	13.65	12.29	11.06	9.09
705-0133	6K107VBR	A	0/6.5/13/19.5/26	3.0	3⅛x2⅞x2⅜	2¼x2⅛"	14.10	12.69	11.42	8.57
705-0134	6K108VBR	A	0/24/27/30/33/36	3.0	3¹³⁄₁₆x3³⁄₁₆x3¼"	2½x2⅝"	14.73	13.26	11.93	10.41
705-0135	6K109VBR	A†	0/24/27/30/33/36	8.0	4⅝x3¹³⁄₁₆x3⅞	3x3¼"	29.09	26.18	23.56	21.45

MULTI-TAP SELENIUM RECTIFIER TRANSFORMERS (Not illus.)

For use in full-wave center-tapped or bridge-type circuits with standard rectifiers. Allow a variety of combinations using taps on both windings, plus "aiding" or "bucking" action of extra winding. Permit numerous output voltages in addition to those below. Pri. 117V, 50-60 Hz. †Resistive or inductive load. *Capacitance load.

Stock No.	Mfr's Type	Rect. Ckt.	Range of AC Volts	Max. DC Output			Size HxWxD	Mtg. Centers WxD	EACH			Bulk Packed
				V†	A*†	V*			1-9	10-49	50-99	100-Up
705-0087	6K63VBR	CT	11.5-29.5	11	2	13.6						
		Bridge	11.0-28.5	23	1.25	30.0	3x2½x2¾"	2x2⅛"	13.53	12.18	10.96	8.22
705-0088	6K64VBR	CT	12.0-29.6	11	4	14.5						
		Bridge	12.0-29.6	24	2	33.0	3⅜x2⅞x3"	2½x2⅜"	11.82	10.64	9.57	7.58
705-0089	6K65VBR	CT	11.5-29.0	12	8	14.5						
		Bridge	11.5-29.0	24	4	32.2	3¾x3⅛x3½"	2½x2⅞"	16.29	14.66	13.19	10.75
705-0090	6K66VBR	CT	12.0-29.5	11.5	12	14.2						
		Bridge	12.0-29.5	24	6	32.0	4⅛x3½x3⅞"	2¾x3¼"	21.83	19.65	17.68	13.26
705-0091	6K67VBR	CT	12.0-29.0	11	15	14.5						
		Bridge	12.0-29.0	23	8	32.0	4⅝x3¾x5"	3x3¾"	31.20	28.08	25.27	18.95

See Page 2 for the Allied Electronics Facility Nearest You

Control Transformers

CONTROL TRANSFORMERS 115-230 volts, 50-60 Hz AC.

Stock No.	Mfr's Type	Fig.	Secondary Parallel	Secondary Series	Size, HxWxD In	Size, HxWxD CM	Mtg. Ctrs. Inches	Wt., Lbs.	EACH 1-9	EACH 10-24	Bulk Pkd. 25-99	Bulk Pkd. 100-Up
705-0200	6K183VFL	A	24V @ 0.5A	48V @ 0.25A	2⅜x2⅞x1⅝	6.03x7.30x4.13	2⅜	1	8.76	5.22	4.70	3.68
705-0210	6K184VFL	A	24V @ 1A	48V @ 0.5A	2¾x3⅛x1⅞	6.99x7.94x4.76	2 13/16	1½	10.07	5.98	5.39	4.22
705-0220	6K185VFL	A	24V @ 2A	48V @ 1A	3½x3⅝x2¼	7.94x9.21x5.72	3⅛	2½	12.19	7.26	6.55	5.12
705-0230	6K186VBR	B	24V @ 4A	48V @ 2A	3 7/16x2 13/16x2⅛	8.73x7.14x7.30	2¼x2½	4¼	13.09	11.69	10.54	8.23
705-0240	6K187VBR	B	24V @ 8A	48V @ 4A	4 5/16x3 7/16x3⅜	10.64x8.73x8.57	2¾x3	8	19.43	17.34	15.63	12.21

CONTROL TRANSFORMERS

Typical applications include: relays, pilot lamps, solenoids, small motors, speed changers, pumps, electronic tubes, heating elements, elevators, door openers, automatic musical instruments. 115-230 volts, 50-60 Hz AC.

Stock No.	Mfr's Type	Fig.	Secondary Parallel	Secondary Series	Size, HxWxD In	Size, HxWxD CM	Mtg. Ctrs. Inches	Wt., Lbs.	EACH 1-9	EACH 10-24	Bulk Pkd. 25-99	Bulk Pkd. 100-Up
928-3000	P-6375	A	6V @ 2A	12V @ 1A	2⅜x2⅞x1⅝	6.03x7.30x4.13	2⅜	1	8.33	4.96	4.47	3.49
928-3001	P-6376	A	6V @ 4A	12V @ 2A	2¾x3⅛x1⅞	6.99x7.94x4.76	2 13/16	1½	10.05	5.97	5.39	4.22
928-3002	P-6377	A	12V @ 4A	24V @ 2A	3½x3⅝x2¼	7.94x9.21x5.72	3⅛	2½	12.80	7.63	6.88	5.37
928R3003	P-6378	B	12V @ 8A	24V @ 4A	3 7/16x2 13/16x2⅞	8.73x7.14x7.30	2¼x2¾	4¼	14.09	12.57	11.33	8.85
928-3004	P-6379	B	12V @ 16A	24V @ 8A	4 5/16x3 7/16x3⅜	10.64x8.73x8.57	3x2¾	8	25.53	22.80	20.55	16.05
928-5091	P-8615	A	24V @ 0.5A	48V @ 0.25A	2⅜x2⅞x1⅝	6.03x7.30x4.13	2⅜	1	9.23	5.49	4.95	3.87
928-5092	P-8616	A	24V @ 1A	48V @ 0.5A	2¾x3⅛x1⅞	6.99x7.94x4.76	2 13/16	1½	10.60	6.29	5.67	4.44
928-5093	P-8617	A	24V @ 2A	48V @ 1A	3½x3⅝x2¼	7.94x9.21x5.72	3⅛	2½	12.83	7.64	6.89	5.38
928-5094	P-8618	B	24V @ 4A	48V @ 2A	3 7/16x2 13/16x2⅞	8.73x7.14x7.30	2¼	4¼	13.78	12.30	11.09	8.66
928-5095	P-8619	B	24V @ 8A	48V @ 4A	4 5/16x3 7/16x3⅜	10.64x8.73x8.57	2¾	8	20.45	18.25	16.45	12.85

ALLIED MINIATURE CONTROL TRANSFORMER

Has 115V, 50-60 Hz primary, 12V secondary.

Stock No.	Mfr's Type	Fig.	Secondary Amps rms	Secondary Amps Bridge	Secondary Amps Half-Wave	Size, HxWxD In	Size, HxWxD CM	Wt., Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk Pkd. 100-Up
705-0270	6K190HF	C	.350	.225DC	.110DC	1⅛x2⅜x1⅜	3.49x6.03x3.49	⅓	5.49	3.27	2.95	2.30

(C) MINIATURIZED CONTROL TRANSFORMERS

Provide trouble-free performance in high speed automatic equipment. Applications include: small motors, speed changers, pumps, automatic musical instruments and many other mechanical and electric devices. All have 117 volt primary; 12, 24, 28 or 36 volt secondary. All types have lead wire terminations.

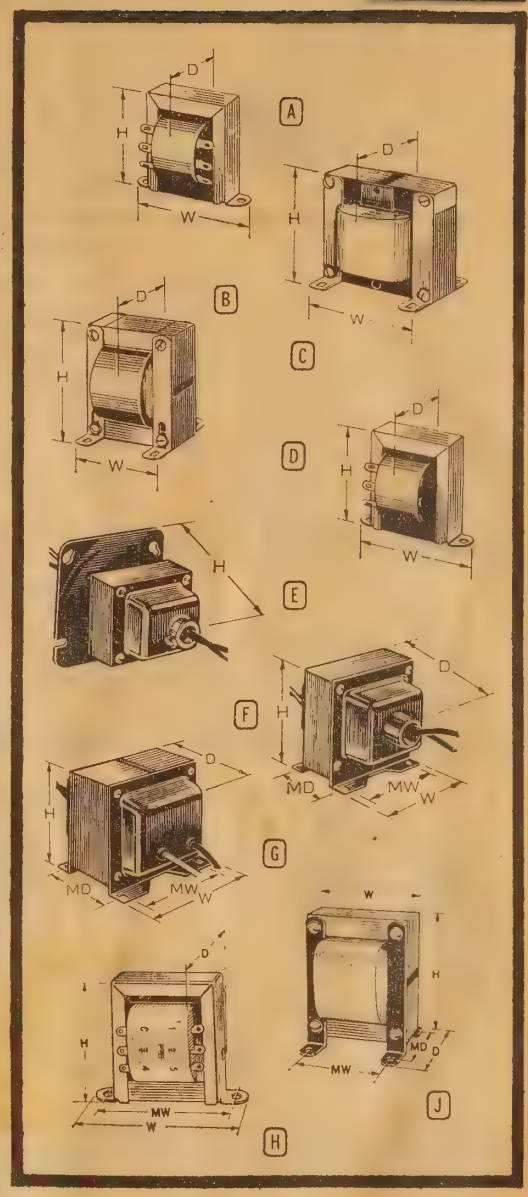
Primary 117 volts, 60 Hz AC; secondary, 12 volts. Lead wire terminations.

Stock No.	Mfr's Type	—Secondary Amps— rms	Bridge	Half-Wave	Size, HxWxD In	Size, HxWxD CM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk Pkd. 100-Up
928-4046	P-8390	.150	.100 DC	.050 DC	1¼x1⅛x1¼	3.18x5.40x3.18	¼	5.82	3.46	3.12	2.44
928-4047	P-8391	.350	.225 DC	.110 DC	1⅜x2⅜x1⅜	3.49x6.03x3.49	⅓	5.78	3.44	3.10	2.42
928-4048	P-8392	.700	.450 DC	.225 DC	1⅝x2⅞x1⅝	4.13x7.30x4.13	⅔	6.45	3.83	3.46	2.71
Primary 117 volts, 60 Hz AC; secondary 24 volts CT. Lead wire terminations.											
928-4050	P-8394	.085	.135 DC	.065 DC	1¼x2⅛x1¼	3.18x5.40x3.18	¼	7.12	4.22	3.81	2.99
928-4051	P-8395	.200	.275 DC	.135 DC	1⅜x2⅜x1⅜	3.49x6.03x3.49	⅓	7.10	4.21	3.80	2.98
928-4052	P-8396	.400	.550 DC	.270 DC	1⅝x2⅞x1½	4.13x7.30x3.81	⅔	7.80	4.62	4.17	3.27
928-4053	P-8397	.700	.925 DC	.450 DC	2x3¼x1⅝	5.08x8.26x4.13	1	8.40	4.96	4.48	3.52
Primary 117 volts, 50-60 Hz AC; secondary 28 volts CT. Lead wire terminations.											
928-4601	P-8601	.175	.225 DC	.125 DC	1⅜x2⅜x1⅜	3.49x6.03x3.49	⅓	6.83	4.06	3.66	2.86
928-4603	P-8603	.800	1.00 DC	.500 DC	1⅜x3¼x2	4.13x8.26x5.08	1	8.23	4.89	4.41	3.45
Primary 117 volts 50-60 Hz AC; secondary 36 volts CT. Lead wire terminations.											
928-4612	P-8612	.300	.350 DC	.200 DC	1½x2⅞x1⅝	3.81x7.30x4.13	⅔	6.48	3.84	3.47	2.72
928-4613	P-8613	.550	.650 DC	.350 DC	1⅝x3¼x2	4.13x8.26x5.08	1	8.25	4.90	4.42	3.46

(D) LOW CURRENT CONTROL TRANSFORMERS

May be series or parallel connected. Lead wire terminations. Color-coded (Two black leads for primary; brown and silver leads for 1st secondary; blue and red leads for 2nd secondary; green and yellow leads for 3rd secondary, with green/yellow center tap lead). 117 V, 60 Hz primary, 12-V secondaries.

Stock No.	Mfr's Type	Amps Each Sec.	Size, HxWxD In	Size, HxWxD CM	Wt., Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk Pkd. 100-Up
928-4020	P-8361	.10	1¾x2x1½	4.45x5.08x3.81	⅛	8.45	5.01	4.52	3.54
928-4021	P-8362	.15	2x2⅜x1¾	5.08x6.03x4.45	⅛	7.80	4.62	4.17	3.27
928-4023	P-8364	.50	2⅜x2⅞x2⅛	6.03x7.30x5.40	1¼	9.83	5.81	5.24	4.12



U.L. RECOGNIZED CONTROL TRANSFORMERS

For 120-V or low voltage 24-V line. 50/60/ Hz. 240-480-V primaries must be series connected for 480-V; parallel connected for 240-V. *Mounts to standard conduit box.

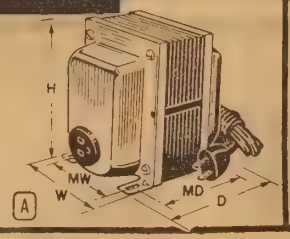
Stock No.	Mfr's Type	Fig.	Pri. V	Sec. V	VA Outputs	Size H x W x D Inches	Mtg. Ctr's. W x D In.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0172	6K 147	E	120	24	50	4x4 3/16x4 3/16	*	15.75	14.18	12.76	9.57
705-0173	6K 148	F	120	24	100	3½x3¾x4¾	3¼x1 13/16	18.43	16.59	14.93	11.19
705-0174	6K 149	F	120	24	150	3½x3¾x5½	3¼x2⅜	19.07	17.16	15.44	11.58
705-0175	6K 150	G	120	24	250	4x4½x4⅞	3¾x3 5/16	28.50	25.65	23.08	17.31
705-0180	6K 155	E	480/240	24	50	4x4 3/16x4 3/16	*	16.00	14.40	12.95	9.72
705-0181	6K 156	F	480/240	24	100	3½x3¾x4¾	3¼x1 13/16	19.54	17.59	15.83	11.87
705-0182	6K 157	F	480/240	24	150	3½x3¾x5½	3¼x2 5/16	20.33	18.30	16.47	12.35
705-0183	6K 158	G	480/240	24	250	4x4½x4⅞	3¾x3 5/16	30.41	27.37	24.63	18.47

CONTROL TRANSFORMERS

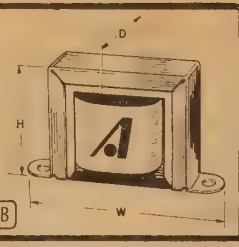
Automation types for high-speed automatic equipment. Adapted to relays, pilot lamps, solenoids, small motors, etc. Also use in high current, low voltage power supplies. Secondaries have two identical windings for series or parallel operation. Primaries operate from either 115 or 230V, 50-60 Hz AC.

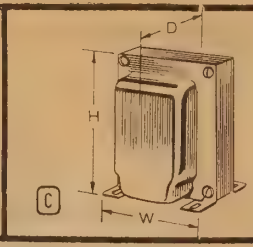
Stock No.	Mfr's Type	Fig.	Parallel Sec. Volts	Parallel Sec. Amps	Series Sec. Volts	Series Sec. Amps	Size H x W x D	Mtg. Ctrs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0101	6K77VFL	H	6	2	12	1	2⅜x2⅞x1¾	2⅜	7.91	4.71	4.25	3.32
705-0102	6K78VFL	H	6	4	12	2	2¾x3⅛x2	2 13/16	9.55	5.67	5.12	4.01
705R0103	6K79VFL	H	12	4	24	2	3⅛x3⅝x2¼	3⅛	12.16	7.25	6.54	5.10
705R0104	6K80VBR	J	12	8	24	4	3⅝x2⅞x3	2¼x2⅜	13.39	11.94	10.76	8.41
705-0144	6K119VBR	J	12	16	24	8	4⅛x3 7/16x3⅜	2¾x3	24.25	21.66	19.52	15.24

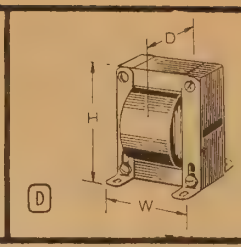
Allied® Multi-Purpose Transformers



Allied transformers are specially built to Allied Electronics' high standards for quality, stability and long-term performance. Quantities of 100 and up are shipped bulk-packed. Phone, wire or write Allied for pricing on quantities of 250 or more.







230-TO-115 VOLT STEP-DOWN AUTOTRANSFORMERS

Well-built units to reduce 220-250 volts, 50-60 Hz AC to 110-125 volts. Black enamel finish.

With 8-ft. cord and plug, except † types. Female outlet on case, except † types.

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	VA Outputs	Size H x W x D Inches	Mtg. Ctrs. MW x MD	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705R0092	6K68HF†	B	230	115	20	2x3¾x2	2 13/16	1¼	6.05	5.45	4.90	3.68
705-0093	6K69HF†	B	230	115	40	2 5/16x5⅝x2⅛	3⅛	1¾	7.85	7.07	6.36	4.77
705-0019	6K12VCP	A	230	115	80	3⅝x3x3¼	2¼x1⅞	3¼	12.75	11.48	10.33	7.75
705-0029	6K22VCP	A	230	115	100	3½x2⅞x3⅜	2¼x2	4	14.65	13.19	11.87	8.90
705-0020	6K13VCP	A	230	115	150	4x3⅜x3⅝	2½x2¼	4¾	15.18	13.66	12.29	9.22
705R0021	6K14VCP	A	230	115	250	4⅝x3⅞x4¼	3x2 13/16	7⅜	16.05	14.45	13.00	11.54
705R0022	6K15VCP	A	230	115	500	4⅝x3⅞x4¾	3x3 5/16	10	37.75	33.98	30.58	22.94
705R0030	6K24VCP	A	230	115	750	5½x4⅝x5	3½x3¼	13¾	37.76	33.98	30.58	22.94
705-0027	6K20VCP	A	230	115	1000	5½x4⅝x5¼	3½x3½	14¾	60.40	54.72	49.24	36.93
705-0031	6K25VCP	A	230	115	1500	6x4½x5⅝	3 7/16x3 5/16	19	55.44	49.90	44.91	33.68
705-0028	6K21VCP	A	230	115	2000	6x4½x6⅜	3 7/16x4⅜	25	62.91	56.62	50.95	38.21

115-TO-230 VOLT STEP-UP AUTOTRANSFORMERS

For operation of 230-V appliances from 110-125 V 50-60 Hz AC. With 8-ft. cord and AC outlet.

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	VA Outputs	Size, HxWxD In	Size, HxWxD CM	Mtg. Ctrs. MW x MD	Wt., Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
928R4700	P8637	A	115	230	85	3½x3⅝x2¾	8.89x6.67x6.99	2x1¾	3¼	11.44	10.18	9.18	7.19
928R4720	P8638	A	115	230	125	3½x2⅝x3	8.89x6.67x7.62	2x2	4¾	12.12	10.79	9.73	7.61
928R4740	P8640	A	115	230	500	4 5/16x3¾x3¾	11.59x9,53x12.07	3x3 5/16	10¼	28.72	25.58	23.07	18.04

ISOLATION TRANSFORMERS

Reduce shock hazard, protect equipment. 6-ft. cord, plug and receptacle, except * types. 115 VAC output.

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	VA Outputs	Size H x W x D Inches	Mtg. Ctrs. MW x MD	Wt. Lbs.	EACH 1-9	EACH 10-49	EACH 50-99	Bulk Packed 100-Up
705-0138	6K112HF*	B	115	115	35	2 5/16x3 1/16x2¼	3⅛	1¾	9.13	8.22	7.39	5.54
705-0165	6K140HF*	B	115/230	115	50	2 5/16x3 1/16x2⅛	3⅛	2	12.80	11.52	10.36	7.77
705-0048	6K38VCP	A	115	115	50	3⅝x3x3⅜	2¼x1⅞	3¾	14.43	12.69	11.43	8.77
705-0025	6K18VCP	A	115	115	100	4⅜x3⅝x4	2¾x2¾	6½	23.11	20.88	18.79	14.09
705-0164	6K139VCP	A	115	115	150	3⅞x3¼x4 7/16	2½x2 15/16	7¼	25.54	22.99	20.69	15.51
705R0026	6K19VCP	A	115	115	250	4⅝x3⅞x4⅝	3x3⅜	10	40.46	36.41	32.76	24.57

B ALLIED ISOLATION TRANSFORMER FOR QUALITY AND VALUE

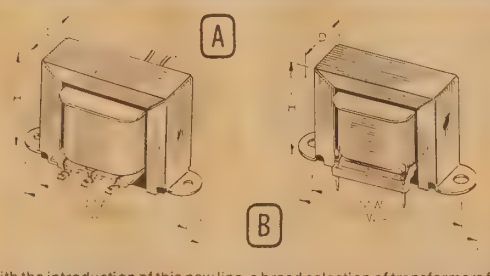
Input 115V, 50-60 Hz; output, 115V.

Stock No.	Mfr's Type	Size, H x W x D In	Size, H x W x D CM	Watts	Wt., Lbs.	EACH 1-9	EACH 10-24	EACH 25-99	Bulk Pkd. 100-Up
705-0250	6K188HF	1¼x2⅛x1¼	3.18x5.40x3.18	0.6	¼	4.72	2.83	2.55	2.10

ISOLATION TRANSFORMERS

All have electrostatic shields grounded internally to core. Rms insulation test: 1500 V. *Primary is tapped for 125, 115 and 105 V; 115-volt secondary. †Isolation testing transformer with 117 V primary; has tapped secondary with three standard receptacles for 105, 115 and 125 volts. ‡117 V primary and 117 V secondary.

Stock No.	Mfr's Type	Fig.	Size, H x W x D In	Size, H x W x D CM	Watts	Wt., Lbs.	EACH 1-9	EACH 10-24	Bulk Pkd. 25-99	Bulk Pkd. 100-Up
928-2075	P-6160*	C	4 1/16x3¾x3¾	11.91x9.53x9.53	100	7	28.92	25.70	23.19	18.16
928-2076	P-6161*	C	4 1/16x3¾x5½	11.91x9.53x13.97	250	14¼	39.40	35.10	31.65	24.74
928-3010	P-6410‡	C	3½x2 13/16x3⅛	8.89x7.14x7.94	50	4	14.51	12.89	11.63	9.11
928-3014	P-6413	B	1¼x2⅛x1¼	3.18x5.40x3.18	0.6	¼	5.45	3.23	2.92	2.29
928-3012	P-6415†	D	5⅞x4⅝x5 1/16	14.92x11.75x14.45	350	17	46.25	41.56	38.41	29.09



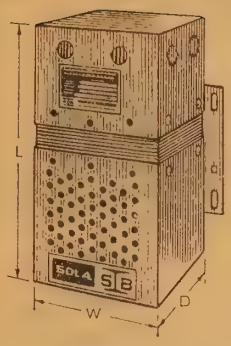
With the introduction of this new line, a broad selection of transformers for power supplies, transistor circuitry, replacements, conversions and more are available. Transformers are "Bobbin" wound constructed to reduce bulk and cost. All primaries are 110-120 volt, 60HZ operation. Hi-pot voltage is 1500. Filament Transformer style is: †Miniature; *Standard; ‡Heavy Duty.

FILAMENT TRANSFORMERS

Stock No.	Mfr's No.	Fig.	Volts	Amps	Size (HxWxD) In.	Size (HxWxD) mm	Mtg. Ctrs. In.	Mtg. Ctrs. mm	EACH 1-49	EACH 50-Up
502-0100	2731384†	A	6.3	.30	1 1/4x2 1/16x1 1/16	31.75x53.38x26.98	1 3/4	44.45	2.18	1.69
502-0120	2731385†	A	12.6	.30	1 1/4x2 1/16x1 1/16	31.75x53.38x26.98	1 3/4	44 75	2.30	1.84
502-0130	2731386†	A	25.2	.30	1 3/8x2 9/8x1 1/4	34.92x60.32x31.75	2	50 8	2.50	2.00
502-0140	273050*	B	6.3	1.2	1 9/16x2 13/16x1 1/4	39.68x71.37x31.75	2 7 16	61.91	4.35	3.48
502-0150	2731505*	B	12.6CT	1.2	1 7/8x3 1/4x1 7/16	47.62x82.55x36.51	2 13 16	71.37	5.42	4.34
502-0160	2731480*	B	25.2	1.2	1 7/8x4 1/4x1 11/16	47.62x107.95x42.86	2 13 16	71.37	6.35	5.08
502-0170	2731510‡	B	6.3	3.0	1 7/8x4 1/4x1 11/16	47.62x107.95x42.86	2 13 16	71 37	6.25	5.00
502-0180	2731511‡	B	12.6CT	3.0	2 3/16x3 11/16x1 3/4	55.56x93.66x44.45	3 1/8	79 37	7.32	5.86
502-0190	2731512‡	B	25.2CT	2.0	2 3/16x3 11/16x1 3/4	55.56x93.66x44.45	3 1/8	79 37	7.77	6.22
502-0200	2731513‡	B	12.0	5.0	2 1/16x4x2 1/2	68.26x101.6x63.50	3 9 16	90 48	8.85	7.08
502-0210	2731514‡	B	18CT	3.5	2 1/16x4x2 1/2	68.26x101.6x63.50	3 9/16	90 48	9.75	7.80

CV Transformers and Minicomputer Regulators

CV TRANSFORMERS TO SOLVE ANY VOLTAGE PROBLEM

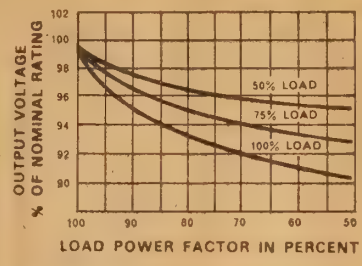


Brown-outs are due to low line voltage caused by power cutbacks; increase of power line transients from lightning or switching of power or equipment; increased speed and sensitivity of new EDP equipment and computers. These factors create the necessity of achieving consistent reliable power—and the constant voltage transformer below can solve that problem. These compact, rugged, versatile voltage transformers can eliminate voltage variations. Static-magnetic voltage regulators accept input variations up to ±15% and regulate to ±1%. Response time 1½ Hz (25 msec) or less. CVS: less than 3% harmonic distortion at full load; newer CVS delivers sine wave output; recommended for all AC applications. No moving parts, nothing to service or replace. Figure A – exposed core, end housings, screw type terminals in outlet box. See below for cord and receptacle adapter kits for "A" structures.

LOAD POWER FACTOR

"Median" value of output voltage will vary from nameplate rating if load has power factor other than that for which the transformer was designed. Load regulation will also be relatively greater as inductive load power factor is decreased. However, resulting median values of output voltage will be regulated against line changes at any reasonable load or power factor.

Change in "Median" Output Voltage Versus Load Power Factor



CURRENT LIMITATION

As a load is increased beyond the rated value, the output voltage drops rapidly to zero. At short-circuit, the output current is limited to approx. 125-200% of rated value. Units can be operated indefinitely at short-circuit without damage.

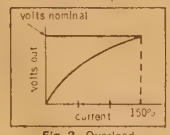


Fig. 2. Overload

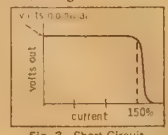


Fig. 3. Short-Circuit

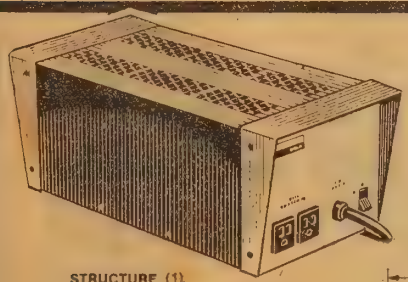
CORD/RECEPTACLE ADAPTER KITS FOR "A" STRUCTURES

The convenience of an input plug receptacle on CV transformers in "A" type housings. Easily wired to standard terminal arrangement located under top plate of housing. Correct part number is indicated under "Adapter Kit" in lists for CVS and CVN types.

Stock No.	Mfr's Type	Style Code	Input Cord	Output Recept.	EACH 1-9	EACH 10-Up
921-6200	999-104	d	2-wire	2-wire	13.44	11.15
921-6100	999-019	b	3-wire	3-wire	12.69	10.50
921-6150	999-020	c	3-wire	3-wire	12.69	10.50

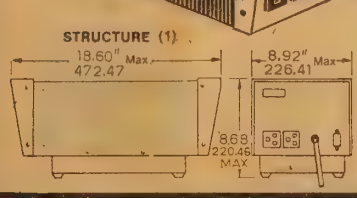
SINUSOIDAL TYPES CVS—60 Hz DUTY

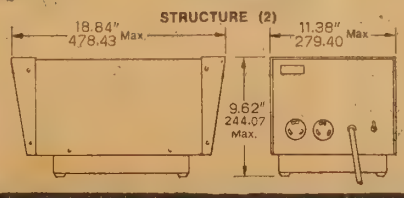
Stock No.	Mfr's. Type	Voltage Rating Output	Voltage Rating Input	VA	Nominal Size (Inches) Outline	Nominal Size (Inches) Mounting	Nominal Size (Millimeters) Outline	Nominal Size (Millimeters) Mounting	Fig.	Use Adapt. Kit	Wt., Lbs.	EACH 1-4	EACH 5-Up
921-3150	23-13-030-2	120	95-130	30	6⅛x4x5⅜16	3x3½	155.6x101.6x131.8	76.2x 88.9	A	d	8	76.09	64.90
921-3200	23-13-060-2	120	95-130	60	615/16x4x5⅜16	3x3½	176.2x101.6x131.8	76.2x 88.9	A	d	10	89.93	76.70
921-3300	23-22-112-2	120	95-130/190-260	120	8x4x5⅜16	3x3½	203.2x101.6x131.8	76.2x 88.9	A	d	14	115.81	98.75
921-3350	23-22-125	120	95-130/190-260	250	9⅜x5⅜x7 1/16	4⅛x4¾	244.5x136.5x188.9	104.8x120.7	A	b	28	157.06	133.90
921-3400	23-22-150	120	95-130/190-260	500	12 7/16x9x6 7/16	5⅜x8⅛	315.9x228.6x163.5	142.9x206.4	A	c	45	255.51	217.90
921-4250	23-26-150	120/240	190-260/380-520	500	12 7/16x9x6 7/16	5⅜x8⅛	315.9x228.6x163.5	142.9x206.4	A	c	46	253.17	215.95
921-3800	23-25-175	120/240	95-130/175-235 190-260	750	16 13/16x9x6 7/16	5⅜x8⅛	427.0x228.6x163.5	142.9x206.4	A	c	54	326.90	278.80
921-3850	23-25-210	120/240	95-130/175-235 190-260	1000	17 15/16x9x6 7/16	8⅜x8⅛	455.6x228.6x163.5	142.9x206.4	A	c	72	398.21	339.60
921-3900	23-25-215	120/240	95-130/175-235/ 190-260	1500	19⅝16x10 11/16x9 1/32	3 15/16x11¾	490.5x271.0x229.4	100.0x298.5	A	...	128	536.49	457.55
921-3950	23-25-220	120/240	95-130/175-235/ 190-260	2000	19⅝16x12¾x10 11/16	4½x11¾	490.5x323.9x271.0	114.3x298.5	A	...	140	677.77	578.00
921-4000	23-25-230-3	120/240	95-130/175-235/ 190-260	3000	21 7/16x12¾x10 11/16	6 7/16x11¾	555.7x323.9x271.0	163.5x298.5	A	...	194	942.05	803.45



MINICOMPUTER REGULATORS

Especially designed for office type environment, these minicomputer regulators are quieter than similar models, below normal office levels, and are rated at 45db. Common mode noise rejection of 60 db. Useful in computer applications where noise and transients cause errors; or low voltage and short duration disruptions can cause loss of memory. Regulators are completely portable and easy to install, simply plug regulator in and it's ready to go. Effective capacitance less than 0.1 μfd. Brownout protection is an additional bonus feature. Input line variations of ±15% are regulated to ±3% variation on output. Operating range from —20°C to +50°C. Full load efficiency of 85%. Includes on-off switch and dual output receptacles. U.L. listed.





60 HERTZ SINGLE PHASE

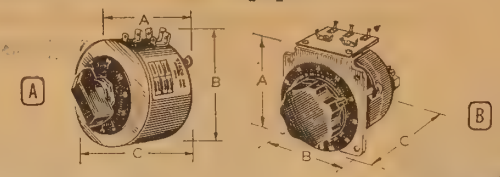
Stock No.	Mfr's Type	Max. Output VA Rating	Nominal Output Voltage	Input† Voltage Range	Shpg. Wt.	Structure Code	EACH 1-4	EACH 5-9	EACH 10-Up
921-5000	63-13-150	500	120	95-130	47	1	298.68	247.25	231.45
921-5020	63-13-210	1000	120	95-130	75	1	428.77	365.70	342.35
921-5040	63-13-220	2000	220	95-130	125	2	751.83	622.30	582.60

†For ±3% output regulation. Unit will operate at lower voltage.

VARIABLE TRANSFORMERS

Variable Transformers and Power Supplies

Deliver continuously adjustable output voltages from AC power lines without introducing any wave form distortion or SCR generated noise. All models except 171 and 251, feature gold plated commutator surface, excellent regulation, high efficiency and conservative ratings. Proprietary process bonds the winding to the core assembly, providing rugged and reliable units capable of long life with minimum maintenance. All are for 50/60 Hz, except *60 Hz only and †60 Hz only with over voltage output.



SINGLE PHASE MODELS (PANEL OR BENCH MOUNTING)

Type numbers without suffix are open style designed for back-of-panel mounting. Types with suffix "C" have coil enclosed in a metal enclosure. Types with suffix "CT" have coil and terminals housed in metal enclosures, for panel/conduit mtg.

SINGLE PHASE MODELS—120 VOLTS INPUT

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Output kVA	Size, Inches (AxBxC)	Size, Cm, (AxBxC)	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-Up
927R3171	171†	A	120	0-120/132	1.75	0.23	2 13/16x3 5/8x1 7/8	7.14x 8.02x 4.76	3	16.00	14.40	12.80
927-3201	201†	A	120	0-120/132	2.0	0.26	2 13/16x3 5/8x1 7/8	7.14x 8.02x 4.76	2	16.25	14.63	13.00
927-3225	221†	A	120	0-120/132	2.25	0.30	2 13/16x3 5/8x2 1/8	7.14x 8.02x 5.40	2	17.25	15.53	13.80
927-3251	251†	A	120	0-120/132	2.5	0.33	2 13/16x3 5/8x2 5/8	7.14x 8.02x 5.87	2 1/2	18.10	16.29	14.48
927R3291	291†	A	120	0-120/132	3.0	0.40	2 13/16x3 5/8x2 5/8	7.14x 8.02x 5.87	2 1/2	18.60	16.74	14.88
927-3375	371†	B	120	0-120/140	3.75	0.53	4 9/32x3 3/4x3 1/4	10.87x 9.53x 8.26	6 3/4	27.20	24.48	21.76
927R5501	501	B	120	0-120/140	5.0	0.74	5 5/32x3 3/4x3 5/16	13.10x 9.53x 8.41	7 3/4	27.30	24.57	21.84
927-6010	1010	C	120	0-120/140	10.0	1.4	5 29/32x5x4 5/32	15.00x12.70x10.56	10 1/4	36.20	32.58	28.96
927-6011	1010CT	D	120	0-120/140	10.0	1.4	6 7/8x5x4 7/16	17.46x12.70x11.27	10 1/4	53.00	47.70	42.40
927-6125	1210CT*	D	120	0-120	12.0	1.4	6 7/8x5x4 7/16	17.46x12.70x11.27	10 1/4	51.60	46.44	41.28
927-6135	SQ1210*	C	120	0-120	12.0	1.4	5 9/16x4 1/4x4 5/32	13.18x10.80x10.56	10 1/4	41.40	37.26	33.12
927-6140	SQ1010	C	120	0-120/140	10.0	1.4	5 9/16x4 1/4x4 5/32	13.18x10.80x10.56	10 1/4	37.70	33.93	30.16
927-6210	1210*	C	120	0-120	12.0	1.4	6 1/32x5x4 5/32	12.91x12.70x10.56	10 1/4	39.90	35.91	31.92
927-7501	1510	E	120	0-120/140	15.0	2.1	6 13/16x6 1/8x4 1/4	17.30x15.56x10.80	15 3/4	68.00	61.20	54.40
927-6155	1510C	F	120	0-120/140	15.0	2.1	6 13/16x6 9/16x4 1/2	17.30x15.72x11.43	15 3/4	75.60	68.04	60.48
927-6160	2510C	F	120	0-120/140	25.0	3.5	8 1/4x7 5/8x4 3/8	20.96x19.37x11.11	22 1/4	107.20	96.48	85.76
927-8001	2510	E	120	0-120/140	25.0	3.5	8 1/4x7 5/8x4 1/8	20.96x19.37x10.48	22 1/4	99.00	89.10	79.20
927-8006	2510CT	F	120	0-120/140	25.0	3.5	10 1/16x7 5/8x4 3/8	25.56x19.37x11.11	22 1/4	121.30	109.17	97.04
927-6175	5010C	G	120	0-140	50.0	7.0	15 3/8x14 1/2x7 1/8	39.05x35.88x18.10	57	242.10	217.89	193.68
927-6180	6010C	G	120	0-120/240	60.0	8.4	15 3/8x14 1/8x7 1/4	39.05x36.83x18.42	67	290.50	261.45	232.40

SINGLE PHASE MODELS—240 VOLTS INPUT

927-6120	1020	C	240	0-240/280	3.5	0.98	5 29/32x5x4 5/32	15.00x12.70x10.56	10 1/4	44.60	40.14	35.68
927-6130	1220CT	D	240	0-240	5.0	1.2	6 7/8x5x4 7/16	17.46x12.70x11.27	10 1/4	58.50	52.65	46.80
927-6150	SQ1220*	C	240	0-240	5.0	1.2	5 9/16x4 1/4x4 5/32	13.18x10.80x10.56	10 1/4	49.00	44.10	39.20
927-7507	1520	E	240	0-240/280	9.5	2.7	6 13/16x6 1/8x4 5/8	17.30x15.56x11.75	19 1/4	68.00	61.20	54.40
927-8500	2520	E	240	0-240/280	10.0	2.8	8 1/4x7 5/8x4 3/8	20.96x19.37x11.11	32 1/4	99.00	89.10	79.20
927-6165	2520C	F	240	0-240/280	10.0	2.8	8 1/4x7 5/8x4 3/8	20.96x19.37x11.11	32 1/4	107.20	96.48	85.76
927-6170	5020C	G	240	0-240/280	28.0	7.8	15 3/8x14 1/8x7 1/8	39.05x35.88x18.10	57	242.10	217.89	193.68
927-6185	6020C	G	240	0-240/280	35.0	9.8	15 3/8x14 1/8x7 1/4	39.05x35.88x18.42	63	290.50	261.45	232.40

PORTABLE MODELS

Prefix "3PN" indicates 3-prong cord, plug and receptacle; prefix "2PF" indicates 2-wire cord, plug and receptacle. All models are housed in a rugged steel enclosure and supplied with input linecord and plug with matching receptacle, on-off switch, fuse, pilot light. Available for 120 Volt AC or 240 Volt AC input.

CORD AND PLUG TYPE—120 VOLTS INPUT

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output Amps	Output kVA	Size, Inches (AxBxC)	Size, Cm. (AxBxC)	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-Up
927-2171	2PF171	H	120	0-132	1.75	0.23	4x4x3 5/16	10.16x10.16x 8.41	3	34.45	31.00	27.56
927-2170	2PF501	H	120	0-120/140	5.0	0.70	4 15/32x6 1/16x5 3/8	11.35x15.40x13.65	7 3/4	45.40	40.86	36.32
927-2302	3PN501	H	120	0-120/140	5.0	0.70	4 15/32x6 1/16x5 3/8	11.35x15.40x13.65	7 3/4	52.40	47.16	41.92
927-2175	2PF1010	J	120	0-120/140	10.0	1.4	7 5/8x5x4 7/16	19.37x12.70x11.27	10 1/4	49.90	44.91	39.92
927-2303	3PN1010	J	120	0-120/140	10.0	1.4	7 5/8x5x4 7/16	19.37x12.70x11.27	10 1/4	55.70	50.13	44.56
927-2305	3PN1210	J	120	0-120	12.0	1.4	7 5/8x5x4 7/16	19.37x12.70x11.27	10 1/4	65.30	58.77	52.24
927-2339	3PN1510	K	120	0-120/140	15.0	2.1	9x6 3/4x4 1/2	22.86x15.72x11.43	18	103.80	93.42	83.04
927-2309	3PN2210	K	120	0-140	22.0	3.1	10 3/4x7 5/8x4 3/8	27.31x19.37x11.11	24 1/4	145.40	130.86	116.32

CORD AND PLUG TYPE—240 VOLTS INPUT

927-2330	3PN2520	K	240	0-280	10.0	2.8	10 3/4x7 5/8x4 3/8	27.31x19.37x11.11	24 1/4	145.40	130.86	116.32

ISOLATED AC/DC POWER SUPPLIES

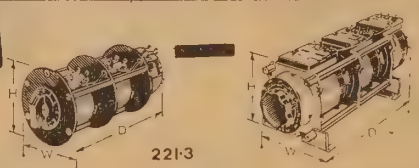
For use in industrial, medical or educational applications where the safety of isolation is required. Output voltage is completely isolated from the power line (input voltage). DC output is rated equal to the isolated AC output on all models. Either side of output can be grounded independently of supply line. All units are U.L. Listed and CSA approved. Ventilated case; 0-150 V voltmeter; circuit breaker; pilot light; banana jacks; on/off switch; 6-ft. cord with NEMA standard 3-prong plug and receptacle.

Stock No.	Mfr's Type	Fig.	Input Volts	Output Volts	Output AC Amps	Output DC Amps	Size, Inches (AxBxC)	Size, Cm. (AxBxC)	Wt. Lbs.	EACH 1-9	EACH 10-Up
927-2002	EJ401V	M	120	0-140	4.0	4.0	10x15 1/32x5 3/8	25.4x38.17x14.92	30	186.25	167.63
927-2003	EJ901V	M	120	0-140	9.0	9.0	10x16 5/32x7 1/2	25.4x41.04x19.05	36	263.50	237.15

NEW!

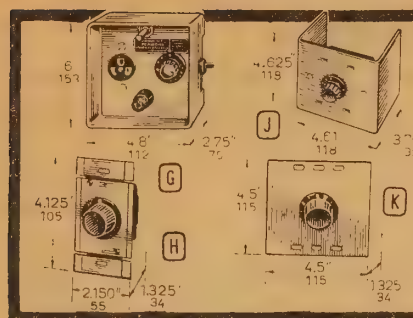
VARIABLE TRANSFORMERS — 3-GANG 3-PHASE MODELS

Similar to the Single Phase Models, above, except these consist of three units ganged together. Frequency response: 60 Hz, *50/60 Hz, 60 Hz only on overvoltage connection.



Stock No.	Mfr's Type	Input Volts	Output Volts	Output Amps	Output kVA	Size, Inches (HxWxD)	Size, Cm. (HxWxD)	Wt. Lbs.	EACH 1-5	EACH 6-Up
927-3230	221-3	240	0-240	2.25	0.94	3 7/8x3 7/8x8 1/8	9.84x9.84x20.63	7	89.75	76.29
927-6015	1010-3*	240	0-240/280	10.0	4.85	6 1/8x5x14 19/32	15.55x12.7x37.06	34 1/2	140.30	119.26
927-7504	1510-3*	240	0-240/280	15.0	6.22	7 1/16x6 1/8x14 9/16	17.93x15.55x36.98	55 1/2	256.30	217.86
927-8004	2510-3*	240	0-240/280	25.0	12.10	8 5/8x7 5/8x14 5/8	21.9x19.36x37.14	83 3/4	358.50	304.73

Inductors, RF Chokes and SCR Power Controls



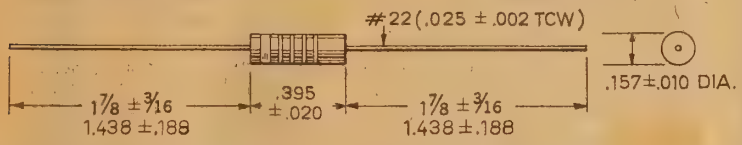
POWERDIAL SOLID STATE SCR POWER CONTROLS

PD SERIES. Bench Model. Aluminum casting provides light but rugged case. 3-prong plug and receptacle affords safety in electrical connections. Fused against overloads. For 120 volts, 50 to 60 Hz. **PDU SERIES.** For panel mounting. May be wired for AC or DC output. Two-wire connection. Aluminum mtg. bracket and phenolic case. Distance between center of oval mtg. holes is 3 9/32" which is standard for electrical outlet and switch boxes. Must be externally fused against overloads. PDU operates at 120 volts, 2PDU at 240 volts, both at 50 to 60 Hz. All may be controlled from one or more remote locations with a motor control system.

Stock No.	Mfr's Type	Fig.	rms AC	Amps DC	AC Volts In	AC Volts Out	rms Output Volts DC	Wt., Lbs.	EACH 1-4	EACH 5-9	EACH 10-Up
847-9208	PD-100	G	0-10	0-7.5	120	0-120	0-85	2½	120.00	95.24	85.80
847-9220	PDU-50	H	0-5	0-5	120	0-120	0-85	½	65.00	51.59	45.48
847-9226	PDU-150	J	0-15	0-10	120	0-120	0-85	1	110.00	87.30	78.65
847-9244	2PDU-100	K	0-15	0-7.5	240	0-240	0-170	¾	90.00	71.43	64.35

SUBMINIATURE SHIELDED RF INDUCTORS

- Only 0.410"x0.162"
- Epoxy Molded and Shielded
- Low DC Resistance
- Meet MIL-C-15305C
- Less than 3% Coupling
- Tolerance: ±10%



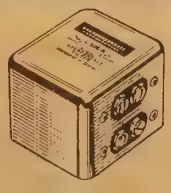
Epoxy molded and shielded for minimum coupling in high-density package. Meet electrical and environmental requirements of **MIL-C-15305C, Grade 1** (resistance to moisture and immersion), **Class B** (—55° to +125°C). For altitudes to 70,000 feet. **Tolerance:** ±10%. Less than 3% coupling. Low DC resistance. **Dielectric strength:** 700 V rms. **Size:** 0.157". ±.010 dia. x 0.395" ± .029 long. AWG #22 leads; internal T termination. Wt. per 100, 3½ oz.

Stock No.	Type 9250-	Ind. μH	Q	@ MHz	Old MIL Number	New MIL Number	Nytronics
871-3010	151	.15	51	25	MS-90537-3	MS-75087-3	SWD .15
871-3030	331	.33	46	25	MS-90537-7	MS-75087-7	SWD .33
871-3060	102	1.0	47	25	MS-90537-13	MS-75088-1	SWD 1
871-3110	472	4.7	44	7.9	MS-90537-21	MS-75088-9	SWD 4.7
871-3130	103	10	49	7.9	MS-90537-25	MS-75088-13	SWD 10
871-3135	153	15	44	2.5	MS-90537-27	MS-75089-1	SWD 15
871-3150	223	22	46	2.5	MS-90537-29	MS-75089-3	SWD 22
871-3155	273	27	49	2.5	MS-90537-30	MS-75089-4	SWD 27
871-3170	473	47	52	2.5	MS-90537-33	MS-75089-7	SWD 47
871-3175	563	56	49	2.5	MS-90537-34	MS-75089-8	SWD 56
871-3180	683	68	51	2.5	MS-90537-35	MS-75089-9	SWD 68
871-3200	104	100	52	2.5	MS-90537-37	MS-75089-11	SWD 100
871-3210	224	220	58	.79	MS-90537-41	MS-75089-15	SWD 220
871-3220	334	330	54	.79	MS-90537-43	MS-75089-17	SWD 330
871-3230	474	470	60	.79	MS-90537-45	MS-75089-19	SWD 470
871-3250	105	1000	65	.79	MS-90537-49	MS-75089-23	SWD 1000
871-3270	225	2200	50	.25	MS-90537-53	MS-75089-27	SWD 2200
871-3310	106	10k	39	.25	MS-90537-61	MS-75089-35	SWD 10k
871-3340	336	33k	27	.079	MS-90537-67	MS-75089-41	SWD 33k
871-3390	107	100k	18	.079	MS-90537-73	MS-75089-47	SWD 100k

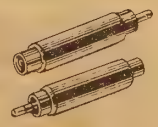
PRICE CHARTS

Inductance μH	EACH 1-99	100-249	250-499	500-Up
Values .15-.33	1.77	1.30	.97	.86
Values 1-10	2.07	1.52	1.14	1.00
Values 15-68	2.46	1.80	1.35	1.19

Inductance μH	EACH 1-99	100-249	250-499	500-Up
Values 100-1000	2.94	2.16	1.62	1.42
Values 2200-10k	3.15	2.31	1.73	1.52
Values 33k-100k	4.20	3.08	2.31	2.03



NEW!



AUDIO INTERFERENCE OUTPUT FILTER

C-506-R. Eliminates interference by radio stations or CB transmitters to hi-fi equipment or PA systems if interference enters at the output. Install between amplifier output and speaker. Filter takes care of monaural and stereo equipment.
855-2550 ..... Each 8.98

AUDIO INTERFERENCE INPUT FILTERS

C-505-R. Eliminates interference by radio stations or CB transmitters to hi-fi equipment or PA systems when interference enters at input. Filter has RCA type female and male connectors. Install at input jack of hi-fi equipment or PA system.
855-2500 ..... Pair 6.85

RF CHOKES WITH AXIAL LEADS

These chokes cover an inductance range from 1 microhenry to 50 millihenries. Either single layer or 3-pi universal winding is used to insure low distributed capacity. Chokes are wound on low-loss molded phenolic or powdered iron core forms and are impregnated with a moisture and fungus-resistant varnish. Leads are 1½" (38.1mm) long.



SINGLE LAYER WINDINGS

Phenolic Core: 3/16" (4.76mm) diameter x ¾" (19.05mm) long. Tolerance: ±10%.

Stock No.	Mfr's Type	Ind. μH	Q Min.	Ohms	Max. MA	Diameter In. (mm)	EACH 1-99	100-249	250-499	500-Up
855-3482	4602	1.0	60	.050	2000	.27(6.8)	.99	.73	.54	.48
855-3486	4604	1.5	58	.093	1800	.27(6.8)	.99	.73	.54	.48
855-3489	4606	2.4	56	.190	1500	.27(6.8)	.99	.73	.54	.48
855-3496	4609	5.5	57	.670	850	.27(6.8)	.99	.73	.54	.48
855-3508	4612	10.0	36	1.50	500	.27(6.8)	.99	.73	.54	.48

Iron Core: 7/32" (5.55mm) diameter x ⅞" (22.22mm) long. Tolerance: ±5%.

Stock No.	Mfr's Type	Ind. μH	Q Min.	Ohms	Max. MA	Diameter In. (mm)	EACH 1-99	100-249	250-499	500-Up
855-3524	4622	10	69	.11	1500	.29(7.3)	1.08	.79	.59	.52
855-3526	4624	15	62	.17	1000	.29(7.3)	1.08	.79	.59	.52
855-3530	4626	24	65	.34	800	.29(7.3)	1.08	.79	.59	.52
855-3538	4629	55	72	1.0	500	.29(7.3)	1.08	.79	.59	.52
855-3550	4632	100	107	3.0	400	.29(7.3)	1.20	.88	.66	.58

3-SECTION WINDINGS



Phenolic Core: 3/16" (4.76mm) diameter x ¾" (19.05mm) long. Tolerance: ±5%.

Stock No.	Mfr's Type	Ind. MH	Q Min.	Ohms	Max. MA	Diameter In. (mm)	EACH 1-99	100-249	250-499	500-Up
855-3556	4642	.10	49	5.4	160	.406(10.3)	1.41	1.03	.78	.68
855-3562	4646	.24	56	8.5	160	.438(11.1)	1.53	1.12	.84	.74
855-3566	4648	.39	57	11	160	.500(12.7)	1.92	1.41	1.06	.93
855-3568	4649	.55	58	13	160	.500(12.7)	1.92	1.41	1.06	.93
855-3582	4652	1.0	59	19	160	.563(14.3)	1.95	1.43	1.07	.94

Iron Core: 7/32" (5.55mm) x ⅞" (22.22mm) long. Tolerance: ±5%.

Stock No.	Mfr's Type	Ind. MH	Q Min.	Ohms	Max. MA	Diameter In. (mm)	EACH 1-99	100-249	250-499	500-Up
855-3584	4662	1.0	83	8.6	160	.469(11.9)	1.95	1.43	1.07	.94
855-3586	4664	1.5	82	11	160	.469(11.9)	1.95	1.43	1.07	.94
855-3588	4666	2.4	80	15	160	.531(13.4)	1.95	1.43	1.07	.94
855-3590	4669	5.5	69	25	160	.594(15)	2.28	1.67	1.25	1.10
855-3592	4672	10	68	50	100	.594(15)	2.46	1.80	1.35	1.19

Ferrite Core: ¼" (6.35mm) diameter x ⅞" (22.22mm) long. Tolerance: ±5%.

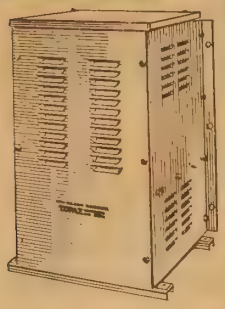
Stock No.	Mfr's Type	Ind. MH	Q Min.	Ohms	Max. MA	Diameter In. (mm)	EACH 1-99	100-249	250-499	500-Up
855-3992	6302	2.5	106	9.0	160	.469(11.91)	1.98	1.45	1.09	.96
855-3996	6304	5.0	91	14	160	.531(13 48)	2.10	1.54	1.16	1.02
855-4000	6306	10	108	31	100	.531(13.48)	2.34	1.72	1.29	1.13
855-4004	6308	25	102	82	65	.531(13.48)	2.34	1.72	1.29	1.13
855-4008	6310	50	113	127	65	.625(15.87)	2.58	1.89	1.42	1.25

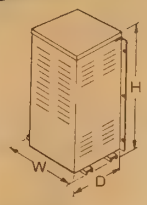
See Page 2 for the Allied Electronics Facility Nearest You

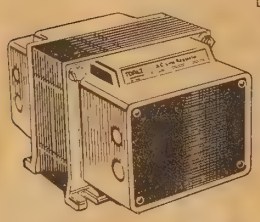
Power Conditioning Equipment

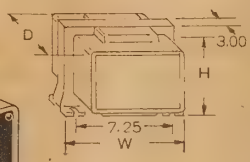
ULTRA-ISOLATION NOISE SUPPRESSION TRANSFORMERS

NEW!







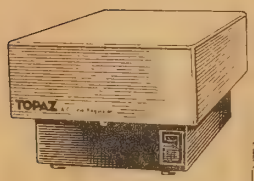


- **Clean, Noise-Free Output**
- **Triple Box Shielded Design**
- **Low Coupling Capacitance**

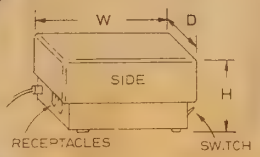
Single-phase, terminal-style, triple-shielded isolation transformers protect sensitive equipment from ac power line noise. Placed between the ac line and the equipment, they assure clean, hash-free, and transient spike-free sine wave input voltage. Can also be used to isolate noisy equipment from the ac line so feedback does not degrade the quality of power available, or affect other sensitive equipment sharing the same power line. Minimize common-mode noise and transverse-mode noise resulting from common-mode noise at the input. Unique triple box shielded design with low (.001pF) coupling capacitance. Used in computer, instrumentation, process control, communications and audio/visual recording applications; prevents logic circuits from interpreting transient spikes as commands. Terminals for direct-wiring. Specifications: Common-mode noise attenuation: 140 dB. Effective capacitance, primary to secondary: 0.001pF. dc isolation: 1000 meg-ohms, winding-to-winding and winding-to-ground. Leakage current: as low as 10 microamps for 1 kVA and smaller units. Electromagnetic noise: less than 0.11 Gauss (—20 db) at 18″ distance. Dielectric strength: 1000 VAC min. Operating voltage: to 110% of nominal.

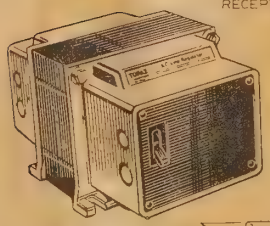
Stock No.	Mfr's Type	Output Power VA	AC Input Voltage	AC Output Voltage	Freq. (Hz)	Dimensions (HxWxD) Inches	Dimensions (HxWxD) cm	Weight lbs.	Weight kg	EACH
951-0100	91092-21	250	120/240	120/240	50/60	4.4x7.0x8.2	11x18x21	14	6	175.00
951-0200	91095-21	500	120/240	120/240	50/60	4.4x7.0x9.4	11x18x24	20½	9	210.00
951-0300	91001-21	1000	120/240	120/240	50/60	6.3x8.4x10	16x21x25	38	17	320.00
951-0400	91002-21	2500	120/240	120/240	50/60	6.3x8.4x11.8	16x21x30	57½	26	400.00
951-0500	91005-21	5000	120/240	120/240	50/60	6.3x8.4x14.2	16x21x36	90½	41	610.00
951-0510	91097-21	750	120/240	120/240	50/60	4.4x7x10	11x18x24	30	13.6	275.00
951-0520	91018-21	1800	120/240	120/240	50/60	6.3x8.4x17.5	16x21x44	140	63.5	360.00
951-0530	93110-21	10000	240/480	120/240	50/60	22.8x15.1x14.1	58x38x36	222	101	1800.00

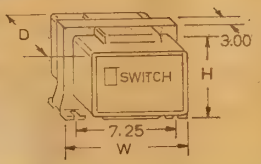
AC LINE REGULATORS AND NOISE SUPPRESSORS



Desktop





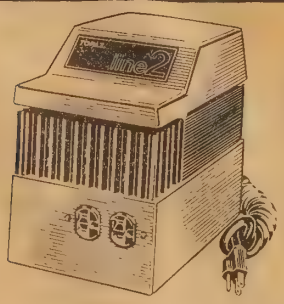


771 Endbell

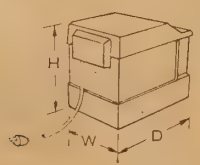
- **High Efficiency**
- **Energy-Saving**
- **Fast Response**
- **Wide Input Frequency Range**
- **Negligible Effect on Power Factor**

The smallest, lightest, most efficient and distortion-free devices commercially available for regulating ac power. High efficiency (98%) from no load to full load reduces heat dissipation, resulting in low power losses and saving costly energy. The low power loss also reduces demands on air conditioning equipment for added savings. Regulators respond to cut-off-range voltage in less than one cycle of the operating frequency, add less than 0.1% applications within human working environments, including computers, video/audio equipment, process control, utility power, control rooms, computerized POS systems, and life support systems. Specifications: Line Voltage Regulation: ±7% max. Efficiency: 98% min. Operating Frequency: 47-63 Hz sine wave. Output Distortion: no spike; adds less than 0.1% THD. Response Time: 1 cycle max. Load Regulation: less than 1% from no load to full load. Operating Temp.: 0° to 50°C. Temp Coefficient: 0.05% °C max.

Stock No.	Mfr's Type	Max. Output VA	Input Range VAC	Output VAC (±7%)	Style	Dimensions (HxWxD) Inches	Dimensions (HxWxD) cm	Weight lbs.	Weight kg	EACH
951-0600	77199	1200	85-125	117	Desktop	5.25x7.5x12	13.34x19x30.5	30	13.6	450.00
951-0700	77102	2000	85-125	117	Endbell	6.31x8.38x10	16x21.5x25	40	18	560.00
951-0800	77104	4000	85-125	117	Endbell	6.31x8.38x11	16x21.5x28	50	22.5	760.00
951-0810	77108	8000	85-125	117	Endbell	18x14x9	46x35.5x23	75	34	1110.00



NEW!



POWER LINE CONDITIONERS

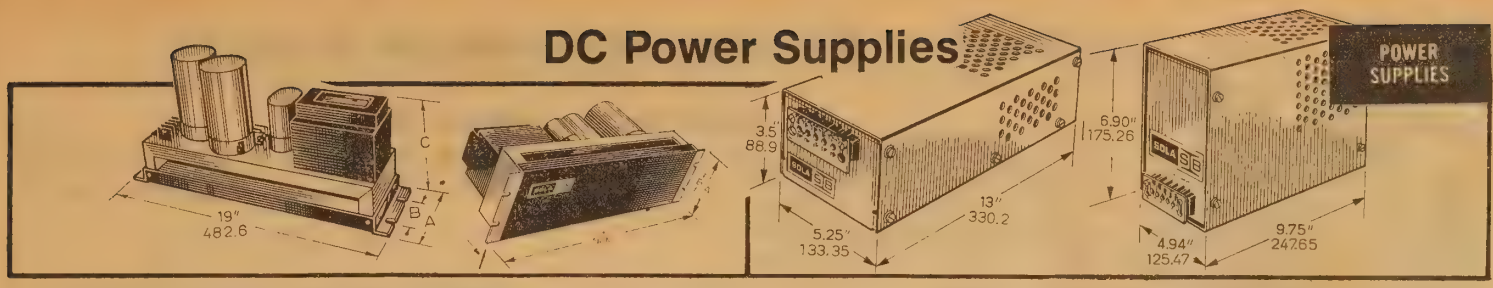
- **Transient Noise Protection**
- **Line Voltage Regulation**
- **Fast Response**
- **Low Output Impedance**
- **High Efficiency**
- **Negligible Distortion**

Acts as a "dedicated" line without worry, wait or high cost. Automatically and efficiently removes power line noise (140 dB attenuation) as well as correcting for high and low voltage. Power line swings of 87-135 VAC are held to 117 VAC ±7%. Single-phase units with power line cord and output sockets combine the best features of ac Line Regulators and Ultra-Isolation Transformers to provide complete protection from minicomputers and microcomputers. Lighter, faster (one cycle response), more efficient (94% power efficiency), and quieter. Specifications: Regulation: ±7% max. Common-mode noise attenuation: 140 dB. Effective coupling capacitance: 0.001 pFd. Response time: less than 1 cycle. Distortion: no spikes, adds less than 0.1% THD. Operating temp.: 0° to 50°C.

Stock No.	Mfr's Type	Output Power kVA	Input Range VAC	Output VAC (±7%)	Dimensions, (HxWxD) Inches	Dimensions, (HxWxD) cm	Weight lbs.	Weight kg	EACH
951-1200	70303	1	87-135	117	9.5x6.5x10.25	24x18x27	46	21	395.00
951-1300	70306	2	87-135	117	11.75x6.5x10.25	30x18x27	75	34	675.00

See Page 2 for the Allied Electronics Facility Nearest You

DC Power Supplies



CVDC POWER SUPPLIES

- **Fixed Output for Pulse, Variable, Intermittent, Fixed Loads**
- **DC Voltage Regulation within ±1% for ±15% Input Voltage Variation**
- **Constant Voltage Transformer Provides Automatic Current Limiting**

Large filter capacitances provide fast response for rapidly changing loads. "Brute force" supplies offer DC voltage regulation to ±1% for ±15% input voltage variation. Constant voltage transformer provides automatic current limiting in event of load faults; short-circuit protection prevents damage from overloads. Utilizes full rating of rectifiers —wave shape minimizes filtering needed. Normal ripple, 1% rms. Negative or positive DC polarity. Typical efficiency, 75%. Electrical circuits insulated from ground for operation at either polarity. For 100-130 VAC, 60 Hz.

Stock No.	Mfr's Type	Output Ratings V	A	W	Size, In. A	B	C	Wt. Lbs.	EACH 1-4	5-9	10-Up
921-7850	282126-1	24	10	240	5¼	2¼	8¾	48	306.45	253.65	237.50
921-7650	281561-2	48	10	480	5¼	2¼	8¾	48	306.45	253.65	237.50

MINIATURE POWER SUPPLIES — SINGLE AND DUAL OUTPUT

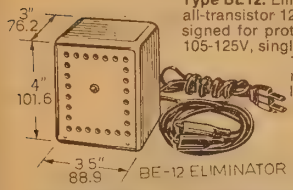


These TW/TWD Series of miniature power supplies are rugged modular assemblies that provide well-regulated, reliable DC power. Designed for mounting to PC boards. Electrical connections can be made either with connector pins or by soldering. All models have threaded inserts for securing the units to the mounting surface. Input voltage: 115V, ±10VAC. Input frequency: 50 to 400 Hz. Input isolation: 50 megohms. Output impedance: 0.2 ohms at 10 kHz. Storage temperature: −25 to +85°C. Operating temperature: −25 to +71°C

Stock No.	Mfr's Type	Description	Output Volts	mA	Regulation Line (%)	Load (%)	Ripple (mv rms)	EACH 1-9	10-24	25-Up
983-0900	TW5-250	Single Output	5	250	0.02	0.04	1.0	49.00	40.00	37.80
983-0902	TW5-500*	Logic Supplies	5	500	0.02	0.04	1.0	49.00	40.00	37.80
983-0904	TW5-1000*		5	1000	0.02	0.04	1.0	92.35	75.00	71.10
983-0905	TW10-120	Single Output	10	120	0.02	0.02	0.5	39.75	32.00	30.60
983-0908	TW-12-120	General Purpose	12	120	0.02	0.02	0.5	39.75	32.00	30.60
983-0910	TW15-100	Supplies	15	100	0.02	0.02	0.5	39.75	32.00	30.60
983-0917	TWD15-65	Dual Output	±15	65	0.02	0.02	0.5	56.50	46.00	44.10
983-0920	TWD15-100	OP Amp Supplies	±15	100	0.02	0.02	0.5	66.60	54.00	51.30
983-0925	TWD15-200		±15	200	0.02	0.02	0.5	92.35	75.00	71.10

*Has built-in overvoltage protection.

ELIMINATOR 12VDC POWER SUPPLY



Type BE12. Eliminates 12-14V batteries to power DC devices. Use for servicing all-transistor 12-14V equipment and hybrid or all-vacuum tube equipment. Designed for protection against inadvertent overloads and dead short circuits. 105-125V, single phase, 60 Hz AC. Precision regulated and filtered. DC output: 12-14V at 1.5A. All silicon transistors for max. dependability. Corrosion resistant cases. UL listed two-wire cord and plug. Output leads complete with alligator clips to DC load. Wt. 1 lb.

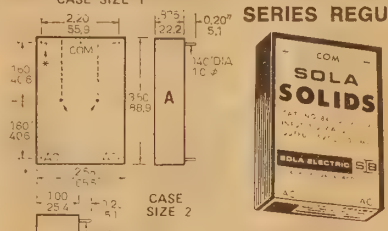
Stock No.	Mfr's Type	Output Volts	EACH 1-9	10-24	25-Up
983-1000	BE12	12-14	48.10	36.00	34.00

MODULAR POWER SUPPLIES

Regulating Action: Holds output voltage to ±1% or less for input variations as great as ±15% of nominal input voltage. Input 100-300 VAC, 60 Hz. **Response:** 25 milliseconds. **Frequency:** variation, linear over ±5% change in frequency from 60 cycles, approximately 1.4% voltage increase for 1% frequency increase. **Operating Temperature:** 0° to 50°C. Output voltage will change 1% for 40° change in ambient temp: **Ripple:** Less than 0.5% 1% rms. **Isolation:** CV transformer isolates AC source and DC load. **Short Circuit Protection:** Automatic current limiting limits current to 250% of rated value and protects power supply and equipment. **Polarity:** Output terminals isolated from ground, allowing positive or negative output to be grounded.

Stock No.	Mfr's Type	DC Output V	A	W	Load Regulation Volts ½L-FL	¼L-FL	Style	Max. Ripple rms	Shpg. Wt.	EACH 1-4	5-9	10-Up
921-4716	28-28-243	28	4.3	120	1.2	2.0	A	.3	14	151.22	125.20	117.20
921-4726	28-12-315	12	15	180	0.6	1.0	B	.4	19	224.95	186.20	174.30
921-4732	28-24-280	24	8	192	0.7	1.2	B	.3	19	224.95	186.20	174.30

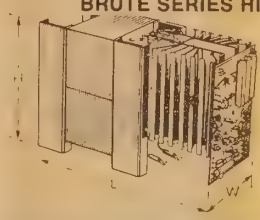
SERIES REGULATED SOLID POWER SUPPLIES



For printed wiring board mounting, point of use regulation. Dependable and rugged, with single output or dual tracking outputs. **Input Voltage:** 115 VAC ±10 VAC (50-400 Hz). **Line Regulation:** ±.20% or 2.5 mv. **Load Regulation:** ±.20% or 2.5 mv. **Output Voltage Accuracy:** ±2%. **Operating Temperature:** −25°C to 71°C.

Stock No.	Mfr's Type	Cond. Output (vdc)	Output Current (ma)	PARD (mv)	Case size	EACH 1-4	5-Up
921-6300	84-05-150	5	500	1 RMS	1A	67.47	55.85
921-6310	84-05-210	5	1000	1 RMS	1B	95.11	78.75
921-6320	84-12-110	12	100	0.5 RMS	2	39.75	32.90
921-6330	84-15-110	15	100	0.5 RMS	2	39.75	32.90
921-6340	84-12-2124	±12	240@	0.5 RMS	1B	95.11	78.75
921-6350	84-15-2110	±15	100@	0.5 RMS	1A	67.46	55.85
921-6360	84-15-2120	±15	200@	0.5 RMS	1B	95.11	78.75

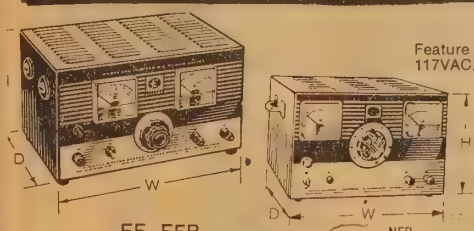
BRUTE SERIES HIGH POWER REGULATED DC POWER SUPPLIES



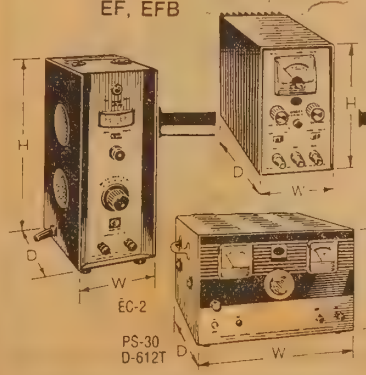
Employs phase control principle. AC input 105/130 or 210/260 V. single phase, 47 to 63 Hz. Line regulation, ±0.1% or 50 mV.; load regulation, ±0.1% or 50 mV. Constant current or constant voltage with automatic crossover. Ripple 1% or 500 mV rms max. Output continuously adjustable from 5 to 50 V or 2 to 25 V (reconnectable). Overload protection. Brute I (300 W): 7¾×7×11". Wt. 20 lbs. Brute II (600 W): 7¾×7×12". Wt. 30 lbs.

Stock No.	Mfr's Type	Output Amps	EACH 1-9	10-24	25-Up
983-1101	Brute I	6/12	268.87	215.10	194.00
983-1102	Brute II	12/24	332.33	265.86	239.00

REGULATED AND INDUSTRIAL TYPE POWER SUPPLIES



EF, EFB



NFB
PS-5
PS-1000-320

PSR-12-50

Feature DC impedance and load regulation. 2% accuracy of meters; selenium and silicon rectifiers. Input; Regulated; 105-125VAC, 60Hz. Industrial; 117VAC, 50/60Hz. †Voltage change for each amp of output change % applies for either line or load, § no-load to full load.

Stock No.	Mfr's Type	Output Volts	Amps	Regulation§ V/A†	Max. Ripple	Meters	DC Imped., Ohms§	Size Inches WxDxH	Wt., Lbs.	EACH 1-4	5-Up
780-2200	EF	4-28	0-5	0.9 (1-5A)	1.0%	0-50V; 0-6 A	0.9 (1-5 A)	12x8½x7	21	226.37	193.84
		2-14	0-5	0.6 (1-5A)	1.0%		0.6 (1-5 A)				
780-2300	EFB	0-32	0-4	1.25	0.1%	0-40/20V;	1.25	12x8½x7	26	294.59	252.25
		0-16	0-8	1.0	0.1%	0-10 A	1.0				
780Q5000	NFB	0-32	0-15	0.4	0.75%	0-50V; 0-25 A	0.4	14¼x14¼x9¾	84	494.64	460.05
780Q2500	PS-5	0-55	0-10	0.7	0.5%	0-75V; 0-15 A	0.7	14¼x14¼x9¾	70	445.59	414.43
780Q2600	PS-1000-32	0-32	0-30	0.2	0.75%	0-50V; 0-30 A	0.2	14¼x19¼x9¾	113	699.14	650.25

Stock No.	Mfr's Type	Output Volts	Amps	Regulation Line	Load	Max. Ripple	Meters	DC Imped., Ohms	Sz. Inch. WxDxH	Wt. Lbs.	EACH 1-4	5-Up
780Q2400	PSR -12-50	0-50	0-250	0.01%+2mV	0.01%	100 μV	0-60V; 300mA	.02	3⅛x10x5¼	7	169.74	157.87

GENERAL-PURPOSE POWER SUPPLIES

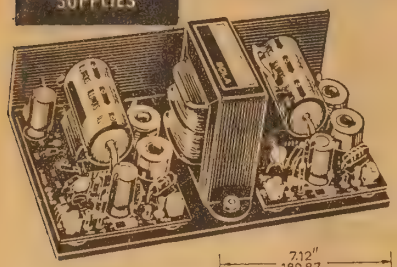
Model D-612T. For CB transceivers, battery charging, solenoids, etc., requiring up to 16VDC. Low ripple, voltage and current output meters. Input: 117V, 60Hz. **Model EC-2.** Low cost unit for auto, tape, disk and transistor radio servicing, research and development. Continuously variable output; low ripple. Combined voltmeter/ammeter. Input: 117V, 60 Hz. **Model PS-30.** Features DC impedance and load regulation, no-load to full load; 5% accuracy on meters; silicon and selenium rectifiers. Input: 117VAC, 50/60 Hz. ‡Continuously variable unless noted. †Voltage change/amp output change. §No-load to full load unless noted.

Stock No.	Mfr's Type	Output Volts‡	Amps	Regulation§ V/A†	Max. Ripple	Meters	DC Imped., Ohms§	Size, Inches WxDxH	Wt. Lbs.	EACH 1-4	5-Up
780-1000	D-612T	0-16	0-10	0.44 (3-10 A)	0.5% at 5A,	0-20V; 0-10A	0.44 (3-10 A)	12x8½x7	22	159.90	136.92
		0-8	0-10	0.3 (3-10 A)	2% at 10 A		0.3 (3-10 A)				
780-2100	EC-2	0-16	0-5	1.8	0.5%	0-20V/10A	1.8	4⅜x6½x10¾	11	118.15	101.17
780Q6200	PS-30	12 adj.	0-30	0.12 (6-30A)	1%	0-20V; -50A	0.27	14¼x14¼x9¾	68	338.05	314.41

See Page 2 for the Allied Electronics Facility Nearest You

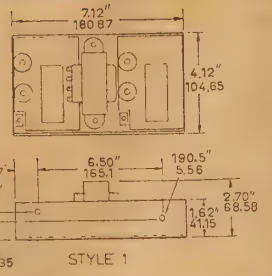
POWER SUPPLIES

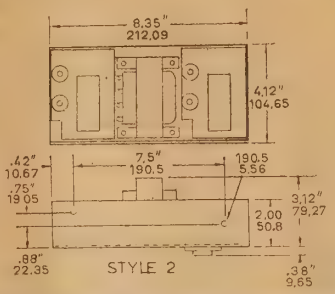
Power Supplies and Microprocessor Power Supplies



MICROPROCESSOR POWER SUPPLIES

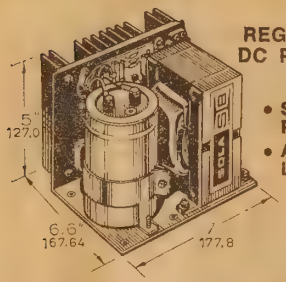
Designed for both bench and rack use. Vertical or horizontal mounting. Isolated independent outputs for either positive or negative operation. Integrated circuit regulation. Remote sensing / programming and reverse voltage protection. Series or parallel operation. Convection cooled. Short circuit protected; automatic current limiting. Constant voltage. Recovery time is less than 50 Microseconds ½L to FL. Input voltage range: 104-127/208-254 VAC; input freq. range: 50-400Hz; Regulation line and load combined: 0.1%; Output ripple: 0.05% RMS (10MHz Band Width); Input/Output isolation: 1000 Megohms D.C., 2500 VAC; Temp. coefficient: 0.01/°C; Operating Temp.: 0°C to +55°C without Derating, −20°C to +80°C with Performance Derating.





Stock No.	Mfr's Type	Output Voltage	Output Current	Chassis Style	EACH 1-4	EACH 5-9	EACH 10-Up
921-8200	83-81-2225	+5V 9 to 12V	2.5A 0.5A	1	60.87	50.35	47.15
921-8210	83-82-2230	+5V −5V	3A 0.1A	1	60.87	50.35	47.15
921-8220	83-81-2250	+5V 9 to 12V	5A 0.8A	2	108.22	89.55	83.85
921-8240	83-83-3225	+5V +9 to 12V −9 to −12V	2.5A .25A .25A	1	94.77	78.40	73.40
921-8260	83-83-3250	+5V +9 to +12V −9 to −12V	5A 0.5A 0.5A	2	120.32	99.60	93.25

OEM SERIES REGULATED 60-WATT DC POWER SUPPLIES



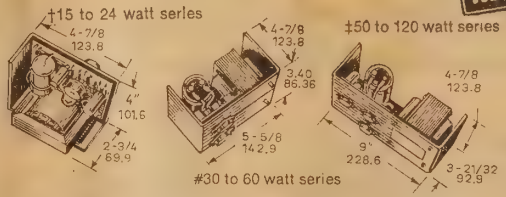
- Short Circuit Protected
- Automatic Current Limiting

For computers, data-processing, process control, electronic measuring and more. Designed for rack or bench use. Completely protected short circuit proof; automatic current limiting. Convection cooled. Complete serviceability. Remote sensing. Input range, 108-132 or 216-264V, 50-400 Hz. Regulation, 0.05% line or load. Operating temperature, 0°C to 55°C. May be used for positive or negative polarity. Recovery time, less than 50 μsec, ½L to FL. Temperature coefficient, 0.03%°C. Storage temperature, −20°C to +85°C. Ripple, 10mV RMS. Av. shpg. wt. 7 lbs.

Stock No.	Mfr's Type	DC Output Volts	DC Output Amp	EACH 1-4	EACH 5-9	EACH 10-Up
921-4850	83-05-280-1	4.8-5.5	6	81.08	69.15	64.75
921-6510	83-12-250-1	11.5-12.5	5	81.08	69.15	64.75
921-4853	83-24-225-1	23-25	2.5	81.08	69.15	64.75

SINGLE OUTPUT POWER SUPPLIES

NEW!

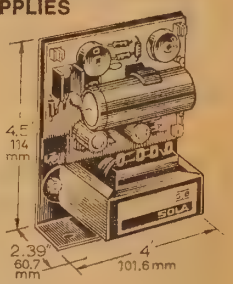


General power supplies with advanced design. †15 to 24 watt series, #30 to 60 watt series, ‡50 to 120 watt series. **SPECIFICATIONS.** Ripple (PK/PK): 3mV, *5mV. Regulation: Line ±0.05%, Load ±0.1%. Universal input: 115/230V, ±10%, 47-63 Hz, 1 phase, no derating. Stability: ±0.2% for 24 hr. period after 30 minute warmup. Operating Temperature: 0° to 65°C (derated 2.8%/°C above 50°C). Remote sense provided except on APS5-3, APS12-1.6, APS15-1.5, and APS24-1. Aluminum chassis with 20% more heat sink area may be mounted in different orientations. Overload protection. No turn-on, turn-off, or power failure overshoots.

U.L. approved.

Stock No.	Mfr's Type APS-	Ratings VDC	Ratings Amp	EACH 1-4	EACH 5-9	EACH 10-Up
983-2000	5-3†	5	3	42.00	34.00	32.20
983-2010	12-1.6†	12	1.6	42.00	34.00	32.20
983-2020	15-1.5†	15	1.5	42.00	34.00	32.20
983-2030	24-1*†	24	1.0	42.00	34.00	32.20
983-2040	12-4#	12	4.0	70.00	55.00	52.10
983-2050	15-3#	15	3.0	70.00	55.00	52.10
983-2060	24-2.2*#	24	2.2	70.00	55.00	52.10
983-2070	12-7‡	12	7	105.00	75.20	71.30
983-2080	15-6‡	15	6	105.00	75.20	71.30
983-2090	24-5*‡	24	5	105.00	75.20	71.30

CLASS 81 REGULATED 15-WATT DC POWER SUPPLIES



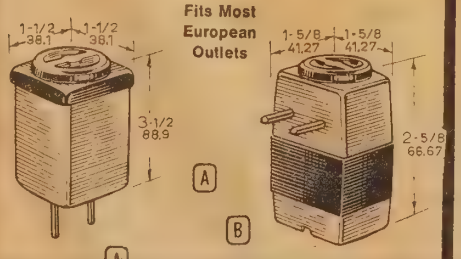
- Convection Cooled
- Constant Voltage
- Low Noise and Ripple
- Short Circuit Protected

A low-cost, convection cooled power supply that eliminates the frills but maintains the necessities. Designed for both bench and rack use. Complete serviceability. Precise integrated circuit regulator with superior drift characteristics. Automatic short circuit protection. Input voltage, 105-125 VAC or 210-250 VAC. Input frequency range, 47-420 Hz, derate load to 75% for 400 Hz operation. Regulation, ±0.2% for line and load combined. Operating temp. 0°C to +50°C without derating. For positive or negative polarity. Recovery time, less than 50 μsec, ½L to FL. Output voltage adjustment, ±12%. Weight: 3 lbs.

Stock No.	Mfr's Type	DC Output Volts	DC Output Amp	EACH 1-4	EACH 5-9	EACH 10-Up
921R6400	81-05-230-1	5-6	3-2.5	33.40	29.85	27.95
921R6410	81-12-215-1	12-15	1.5-1.2	33.40	29.85	27.95
921R6420	81-24-180-1	24	.8	33.40	29.85	27.95

FOREIGN TRAVEL ADAPTERS

Convert 220/240 Volts to 120 VAC 50/60 Hz



(A) CONVERTER-ADAPTER

Allows use of 120 VAC irons, broilers, heating pads, etc. from 220/240 volts. Rated at 1000 watts. Built-in thermostat automatically prevents overheating and overloading. 3½x1½x1½". 3 oz.
910-5255. Type 273-1402.....Each 11.95

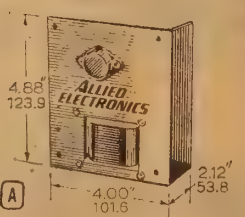
(B) STEP-DOWN TRANSFORMER

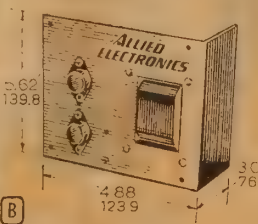
For completely safe operation of 120 VAC electric razors, radios, calculators, etc., from 220/240 VAC. Also great for battery rechargers. Rated at 40 watts. Thermally protected. 1⅝x2⅝x1¼". 9½ oz.
910-5250. Type 273-1401.....Each 11.95

REGULATED DC POWER SUPPLIES

- Low Cost
- Rugged Aluminum Chassis Construction
- .05% Load Regulation
- Two Year Warranty
- Vibration and Shock Per MIL-STD-810B
- IC Regulated

DC power supplies offer rugged construction, IC regulation at low cost. Reverse voltage protection of output and pass element. Open frame, rugged aluminum chassis construction. Convection cooled; units must be derated or fan cooled when mounted in confined space. All models have overload and short circuit protection by current limit/foldback, instantaneous recovery and automatic reset. Line regulation, ±.01%; load regulation, ±.05%. Input, 115/230VAC, 47-440 Hz. Output ripple, 3.0 mV Pk-Pk. 400 μV RMS. Transient response, 30 μSec. for 50% load change. Temperature coefficient, .002%/°C typical .03%/°C maximum. Temperature rating, 0 to 50°C, derated linearly to 40% at 71°C. Efficiency, 5 V outputs, 50% at full load, 115 VAC; 13-24 V outputs, 65% at full load, 115 VAC. *Indicates built-in overvoltage protection.





Stock No.	Mfr's Type	DC Output Volts	DC Output Amps	Fig.	EACH 1-9	EACH 10-24	EACH 25-Up
965-0050	HB5-3*	5	3.0	A	39.00	31.20	28.10
965-0100	HB15-1.5	15	1.5	A	32.00	25.60	23.05
965-0150	HB24-1.2	18	1.0	A	32.00	25.60	23.05
		20	1.0	A			
		24	1.2	A			
965-0200	HC5-6*	5	6.0	B	66.00	52.80	47.52

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

RECHARGEABLE SEALED GEL-TYPE BATTERIES

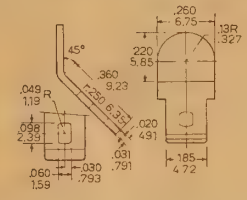


Battery Breakthrough! Compact and Lightweight with Exclusive Gel Electrolyte That's Sealed, Safe, Maintenance-Free and Takes 500 or More Charge/Discharge Cycles! Ideal for Portable TV, Recorders, VOMs, Burglar/Fire Alarms . . . ahd More!

• Truly Leakproof • 500 or More Cycles Possible • Long Lasting • No Maintenance of Any Kind • Use in Any Position • Long Shelf Life • No Permanent Cell Reversal • Usable from —76°F to +140°F • High Discharge Rate Capability • Series or Parallel Operation • No Shipping Precautions Needed • Competitively Priced

The very best in reliable, rechargeable, no-maintenance batteries. They outperform and outvalue other systems when used as the power source in almost any portable application. Absolutely safe because a "one-way" relief valve releases any pressure that may build up, then automatically reseals. High-impact polystyrene cases eliminate shorts, rust, fungus or other organic growth. And there's no "memory" problem—these batteries deliver full rated power WHEN YOU NEED IT, regardless of previous use history.* Capacity at 20-hour rate. †Height over terminal.

TERMINALS



Quick-Disconnect or Solder Lug. Standard terminal. Mates with Allied FR--187 series (.032" tab) receptable shown on page 112. See exceptions at right.

Stock No.	Mfr's Type	Nom. V	Rt. Cap.* Amp-Hrs.	20-H. Dis. Rate mA	Dimensions						Weight		EACH			
					Length		Width		Height†		Lbs.	Kg	1-9	10-99	100-499	500-Up
					In.	mm	In.	mm	In.	mm						
621-0605	PS-412	4	1.2	60	2.64	67	0.94	24	2.24	57	0.46	0.21	6.70	6.00	5.35	4.75
621-0610	PS-426	4	2.6	130	3.54	90	1.34	34	2.52	64	1.06	0.48	9.10	8.15	7.30	6.45
621-0180	PS-610	6	1.0	50	2.00	51	1.65	42	2.24	57	0.62	0.28	8.15	7.30	6.40	5.70
621-0190	PS-612	6	1.2	60	3.94	100	.94	24	2.24	57	.64	.29	7.95	7.10	6.35	5.60
621-0200	PS-618	6	1.8	90	2.95	75	2.01	51	2.28	58	0.95	0.43	12.50	11.20	10.00	8.85
621-0220	PS-626	6	2.6	130	5.28	134	1.34	34	2.56	65	1.28	0.58	10.45	9.35	8.35	7.35
621-0225	PS-630	6	3.0	150	2.60	66	1.30	33	5.00	127	1.50	0.68	11.00	9.85	8.80	7.75
621-0240	PS-640	6	4.0	200	2.76	70	1.89	48	4.02	102	1.81	.82	11.70	10.45	9.35	8.25
621-0260	PS-645	6	4.5	225	5.98	152	1.30	33	3.90	99	2.36	1.07	13.75	12.35	11.00	9.75
621-0280	PS-670	6	7.0	350	3.86	98	2.21	56	4.65	118	3.08	1.40	13.25	11.90	10.60	9.35
621R0300	PS-680	6	8.0	400	5.94	151	1.97	50	4.02	102	3.97	1.80	15.25	13.70	12.20	10.80
621-0340	PS-1215	12	1.5	75	7.01	178	1.33	34	2.64	66	1.76	0.80	17.70	15.85	14.20	12.50
621-0350	PS-1226	12	2.6	130	7.68	195	1.85	47	2.95	75	2.86	1.30	18.50	16.60	14.80	13.10
621-R0360	PS-1245	12	4.5	225	5.95	151	2.52	65	4.02	102	4.88	2.22	21.70	19.40	17.35	15.30
621-0365	PS-1260	12	6.0	300	5.94	151	2.56	65	4.06	103	5.29	2.40	29.45	26.35	23.55	20.80
621-0380	PS-6200	6	20.0	1000	6.18	157	3.27	83	4.92	125	8.14	3.70	26.35	23.60	21.10	18.60
621-0400	PS-12200	12	20.0	1000	6.89	175	6.54	166	4.92	125	17.60	8.00	57.20	48.50	41.50	.....

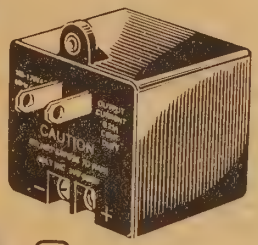
Standard Terminals for all models are Quick-Disconnect tabs, 0.187"x0.032" to mate with Allied M--187 series shown on page 112. Exceptions: Model PS-640 has wire leads terminated with connector. Model PS-670 has leads terminated with receptable. Mates with Allied M--187 series on page 112. PS-6200: Nut and bolt terminals. PS-12200 has quick disconnect terminals to mate with Allied FR--250 series shown on page 112, receptable or equivalent.

BATTERY CHARGERS

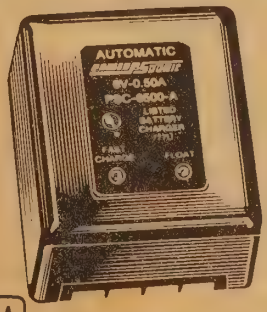
ELECTRONICALLY REGULATED BATTERY CHARGERS FOR SEALED LEAD ACID AND GEL-TYPE BATTERIES



B PSC-12250



C PSC-6250-



A PSC-6500-A

"C/F" SERIES: Adjustable Voltage Chargers. The output voltage of these chargers can be set to the high rate for cycle operation (repetitive discharge/charge) or low rate for continuous i.e., float charging. At the high rate the charger should be disconnected after 24 hours or when the battery is fully charged. The charging indicator light goes off when the battery reaches 90% of full charge. Factory set to low rate. Voltmeter required to adjust setting. **"F" SERIES: Float Chargers.** This series of chargers is designed to provide optimum life for batteries used in standby applications where charging is continuous. The chargers deliver a constant voltage of 2.25-2.3 volts/cell which allows the battery to seek its own current level and maintain itself in a fully charged condition. **"A" SERIES: Automatic Dual Rate Chargers.** These chargers sense battery requirements and automatically switch from the fast charge to float mode, or the float to fast charge mode. In the fast charge mode the chargers are capable of recharging batteries in less than 16 hours without any danger of overcharge. LED's provide visual indication of the charging mode.

UL Listed And Designed To Meet CSA Requirements

Stock No.	Mfr's Type	Fig.	Output Voltage (VDC)		Output Current		For Use With Batteries	EACH		
			Nom.	Range	Nom.	Max.		1-4	5-9	10-Up
621-0620	PSC-6250-C/F	C	6	6.50-7.30	.25A	.50A	PS610, 612, 618, 626, 640, 645, 670, 680	20.80	18.95	16.90
621-0625	PSC-12250-C/F	C	12	13.00-14.60	.25A	.50A	PS1215, 1226, 1245	20.80	18.95	16.90
621-0600	PSC-6250-A	B	6	6.90/7.35	.25A	.50A	PS610, 612, 618, 626, 640, 645, 670, 680	30.30	27.50	24.65
621-0650	PSC-12250-A	B	12	13.80/14.70	.25A	.50A	PS1215, 1226, 1245	30.30	27.50	24.65
621-0670	PSC-6500-A	A	6	6.90/7.35	.50A	1.00A	PS670, 680, 6200	36.00	32.62	29.25
621-0675	PSC-12500-A	A	12	13.80/14.70	.50A	1.00A	PS1245, 12200	36.00	32.62	29.25
621-0622	PSC-6250-F	C	6	6.75-6.90	.30A	.60A	PS610, 612, 626, 640, 645, 670, 680	18.90	17.10	15.35
621-0660	PSC-12250-F	C	12	13.50-13.80	.25A	.40A	PS1215, 1226, 1245	18.90	17.10	15.35
621-0685	PSC-12500-F	A	12	13.50-13.80	.50A	.60A	PS1245, 12200	24.60	22.30	20.00

Battery Cross-Reference and Flashlights

BATTERY CROSS-REFERENCE

RECHARGEABLE GELL TYPE BATTERIES

Stock No.	Mfr's Type	Page No.	GLOBE	EL POWER	EAGLE PICHER
621-0160	PS426	151	GC426	.....	.....
621-0180	PS610	151	GC610	EP610	CF6V1
621-0200	PS618	151	GC620	.....	.....
621-0220	PS626	151	GC626	EP626	CF6V2.5
621-0240	PS640	151	GC640	EP640	.....
621-0260	PS645	151	GC645	EP645	CF6V5
621-0280	PS670	151	GC660	.....	.....
621R0300	PS680	151	GC680	EP675	CF6V8
621-0380	PS6200	151	GC6200	.....	.....
621-0340	PS1215	151	GC1215	EP1217	CF12V1.5
621R0360	PS1245	151	GC1245	EP1245	CF12V5-L
621-0400	PS12200	151	GC12200	.....	CF12V20

MERCURY BATTERIES

Stock No.	Mfr's Type	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC
853-0001	RM1	HG1	1100M	153	E1	T1
853-0002	RM1R	HG1R	1109M	153	E1N	T1N
853-0004	RM3R	HG3R	.....	153	E3	.....
853-0005	RM4R	HG4R	.....	153	E4	.....
853-0007	RM12	HG12	1101M	153	E12	T12
853R0008	RM12R	HG12R	1113M	153	E12N	T12N
853R0012	RM42R	HG42R	1115M	153	E42N	RPX13
853-0017	RM401	HG401	901M	153	E401	T401
853-0020	RM502R	HG502R	1119M	153	E502	.....
853-0023	RM601R	HG601R	1121M	153	E601	.....
853-0024	RM625	HG625	1122M	153	E625	T625
853-0025	RM625R	HG625R	1123M	153	E625N	T625N
853-0030	RM675	HG675	1127M	153	E675	T675
853-0034	TR115R	H115R	1504M	153	E115N	T115N
853-0035	TR126	H126	1611M	153	E126	T126
853-0036	TR132	H132	1200M	153	E132	T132
853-0037	TR132R	H132N	1203M	153	E132N	T132N
853-0038	TR133	H133	1306M	153	E133	T133
853-0039	TR133R	H133R	1314M	153	E133N	T133N
853R0040	TR134R	H134R	1409M	153	E134N	T134N
853-0041	TR135R	H135R	1505M	153	E135N	T135N
853-0042	TR136	H136	1615M	153	E136	T136
853-0043	TR136R	H136R	1616M	153	E136N	T136N
853R0045	TR146X	H146X	1604M	153	E146X	.....
853-0048	TR164	H164	1404M	153	E164	T164
853-0049	TR164R	H164R	1410M	153	E164N	.....
853-0050	TR165	H165	1500M	153	E165	T165
853-0052	TR175	H175	1501M	153	E175	T175
853-0053	TR177	H177	1606M	153	E177	T177
853-0054	TR233R	.....	1315M	153	E233N	.....
853-0059	TR235R	.....	.....	153	E235N	T235N
853-0055	TR286	P6	1600M	153	E286	.....
853-0056	TR289	H289	1810M	153	E289	T289
853-0061	TR431S	.....	1801M	153	E431	T431
853R0057	ZM9	HG9	.....	153	E9	T9

SILVER OXIDE BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC
853-0090	MS76B	....	153	S76	RS76

INDUSTRIAL BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC
737-0812	4FH	900E	153	.....	.....
737-0814	4F5H	903	153	715	903

LANTERN BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC	MALLORY
737-2006	F4BP	915	153	510S	942	M915
737-2007	TW1	918	153	731	918	M918
737-2008	TW2	926	153	732	926	.....

RECHARGEABLE NICKEL CADMIUM BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC	MALLORY
737-0130	CD6(AA)	.....	153	.....	.....	.....
737-0140	CD6L(AA)	.....	153	.....	.....	.....
737-0200	CD10(D)	.....	153	CH4	.....	.....
737-0210	CD10L(D)	.....	153	CH4T	.....	.....
737-0230	CD12(C)	.....	153	CH1.2	.....	.....
737-0250	CD14(C)	.....	153	CH1.8	.....	.....
737-0270	CD22	.....	153	5/B225T	.....	.....
737-0330	CD28	.....	153	10/B225	.....	.....
910-5175	23-123(D)	13NC	153	CH50	613	NC13D
910-5176	23-124(C)	14NC	153	CH35	614	NC14C
910-5177	23-125(AA)	15NC	153	CH15	615	NC15AA

ZINC CARBON BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC	MALLORY
910-5114	23B466(D)	13F	153	950	2D	M13F
910-5129	23B468(AA)	15F	153	915	7AA	M15F
910-5116	23B467(C)	14F	153	935	1C	M14F
910-5112	23B464	1604	153	216	1604	M1604
737-0480	B266/M6	1605	153	266	1605	M1605
737-0510	P6	1600	153	226	1600	M1600
737-0760	2F	11	153	W353	11	.....
737-0810	4F	4	153	742	A4	.....
737-0910	532	706	153	703	706	.....
737-0420	F4P1	6	153	744	A6	.....
737-0970	4156	710	153	763	A710	.....
737-0980	5156SC	708	153	778	708	.....
737-0990	5308	709	153	762S	709	.....
737R0430	K10	224	153	417	.....	.....
737-0490	M30	202	153	482	202	.....
737-0580	U10	208	153	411	208	.....
737-0590	U15	215	153	412	215	M215
737R0600	U20	210	153	413	A210	.....
737-0610	U30	213	153	415	213	.....
737-0640	V60	204	153	490	204	.....
737-0670	XX45	200	153	467	200	.....
737-0690	Y10	220	153	504	220	M504
737-0700	Y15	221	153	505	221	M505
737-0740	Z30NX	711	153	W350	711	.....
737-2001	5540	713	153	773	713	.....
737-2005	F4M	908	153	509	941	M908

ALKALINE BATTERIES

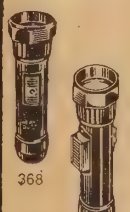
Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	BURGESS	RAY-O-VAC	MALLORY
910-5171	23-550(D)	13A	153	E95	AL2	813	MN1300
910-5172	23-551(C)	14A	153	E93	AL1	814	MN1400
910-5173	23-552(AA)	15A	153	E91	AL9	815	MN1500
910-5174	23-553	1604A	153	522	.....	.....	MN1604
853-0303	MN2400(AAA)	24A	153	E92	AL7	824	MN2400
853-0304	MN9100(N)	910A	153	E90	ALN	810	MN9100

PHOTO BATTERIES

Stock No.	Mfr's Type	NEDA No.	Page No.	EVEREADY	RAY-O-VAC
853-0080	PX13B	1114NP	153	EPX13	RPX13
853-0085	PX21	1306A	153	523	RPX21

13

FLASHLIGHT AND LANTERNS FOR A VARIETY OF APPLICATIONS



INDUSTRIAL FLASHLIGHT WITH SPARE BULB

Industrial Flashlight. "Bullet" end-cap. Has ring hanger, deeply recessed lens. Uses lamp No. PR2 (incl.) and two No. 2 (size "DD") cells (not incl.).
737-0870. Model 368. Shpg. wt. 8 oz. **1-9** ..... **Each 5.30**
10-Up ..... **Each 4.46**

INDUSTRIAL "MAGNET" FLASHLIGHT

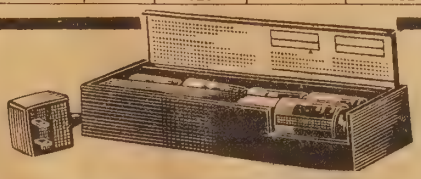
Industrial "Magnet" Flashlight. Powerful "Alnico" magnet with 15-lb. grip. Deeply recessed lens. Comes with lamp PR2. Uses two No. 2 (size "D") battery cells (not included).
737R0850. Model 263. Shpg. wt. 8 oz. **1-9** ..... **Each 7.48**
10-Up ..... **Each 6.30**

All-Metal Safari® Lite. A sturdy, all-metal flashlight. Comes with heavy-ribbed body and bright plated-steel case with non-slip grip. Has convenient ring hanger. Handy end loading. Uses 2 "D" batteries, not included. 4-way switches: On-Flash-Lock-Off.
737-0820. Model 567. **1-4** ..... **Ea. 5.65** **5-Up** ..... **Ea. 4.76**

Safari™ Fluorescent Lantern. A multi-purpose lantern, perfect for the outdoors and emergencies. Safe, dependable, glareless, fumeless light is ideal for the camper or outdoorsperson. Floods bright, white fluorescent illumination across a full 110 degree field. Casts a beam of light that shows up objects clearly a full 73.5 feet away. Has power miser switch which cuts from full brilliance to useful lower intensity for longer battery life. AC/DC. Complete with FL46 AC power cord and two Z46ND batteries.
737-0830. Model 165/3 COMP. **1-2** ..... **Each 37.72** **3-Up** ..... **Ea. 31.75**

Dolphin "Floatable" Lantern. It's floatable, the air pocket in the head makes this lantern float, even with the battery installed. The sturdy plastic body of this lantern is constructed to withstand the hard, rough treatment of the outdoors. Uses one F4M battery, included.
737-0385. Model 164 1 COMP. **1-2** ..... **Each 9.36** **3-Up** ..... **Ea. 7.88**

Double-Action Lantern. Lantern has red safety flasher on a movable arm. Ideal for signaling trouble on the highway, this signal flasher can be seen from a mile away. Also, sealed-beam headlight throws a half-mile of light for cars, campers, boats or home emergencies in a black-out. Complete with TW1 6-volt battery.
737-0840. Model TW3 COMP. **1-5** ..... **Ea. 20.06** **6-Up** ..... **Ea. 16.89**



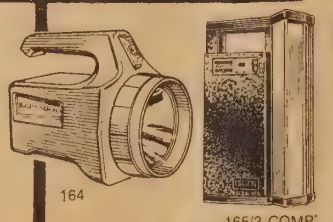
SELF-REGULATING DELUXE BATTERY CHARGER

Recharges every popular size of battery including rechargeable alkaline, carbon-zinc or nickel-cadmium types. Charges up to four batteries simultaneously—delivers up to 1000 recharges per battery. "Safe-T-Plug" feature prevents burnouts. For 120VAC. U.L. listed.
910-5215. Type 270-1530 ..... **Each 8.95**



9-VOLT BATTERY CLIPS

Type 270-325. Perfect for replacement use in walkie-talkies, radios, tape players—any battery-powered portable. ½" spacing. Fits transistor radio and battery holder connectors. Made of sturdy plastic. Long life and increased resistance to battery acid and other physical extremes.
910-5205 ..... **Set of 5, .99**





See Page 2 for the Allied Electronics Facility Nearest You

Zinc Carbon, Alkaline and Mercury Batteries

ALLIED'S OWN "NEW FORMULA"

Allied's own premium-quality "New Formula" power cells give you superior performance at substantial savings. Factory sealed for protection in handling against corrosive leakage. Available in sizes to fit all popular flashlights and other battery-powered appliances. "Buy 'em by the box" and save even more.



ENERCELL SUPER-VALUE LONG-LIFE ALKALINE BATTERIES

Extra service and long life. Designed for high drain service applications—outperform, outlast standard operating zinc-carbon flashlight batteries by up to 1000%. Alkaline cells cost less, too. Compare by dividing the initial cost by the many extra hours of service provided. 10 oz. pack.



Stock No.	Type No.	Size	NEDA No.	EACH 1-11	EACH 12-Up
910-5114	23-466	1.5V "D"	13F	.27	.24
910-5129	23-468	1.5V "AA"	15F	.19	.17
910-5116	23-467	1.5V "C"	14F	.26	.23
910-5112	23-464	9V Rect.	1604	.59	.53

Stock No.	Type No.	Size	Volts	NEDA No.	PRICE
910-5171	23-550	"D"	1½	13A	Pkg. 2/1.89
910-5172	23-551	"C"	1½	14A	Pkg. 2/1.59
910-5173	23-552	"AA"	1½	15A	Pkg. 4/2.49
910-5174	23-553	Rect.	9	1604A	Ea. 1.59

ZINC CARBON BATTERIES FOR TRANSISTOR CIRCUITS

Stock No.	NEDA No.	Mfr's Type	Voltage	Size In.	Standard Quantity	STANDARD QUANTITY 1-9	10-24	25-Up
737-0780	1604D	2MN6	9.0	1x$^{39}/_{64}$x1⅞ dia.	Each	1.38	1.15	.77
737-0790	1602	2N6	9.0	1⅜x1⅜x2¾	Each	4.63	3.90	2.60
737-0040	1612	C6X	9.0	2$^{5}/_{16}$x1$^{1}/_{32}$x6$^{1}/_{16}$	Each	9.90	8.34	5.56
737-0480	1605	B266/M6	9.0	1$^{13}/_{16}$x1$^{13}/_{16}$x2$^{27}/_{16}$	Each	5.42	4.56	3.04
737-0510	1600	P6	9.0	1$^{15}/_{16}$x1 dia.	Each	3.30	2.78	1.85

ZINC CARBON "A" BATTERIES FOR ELECTRONIC USE

737-0760	11	2F	1.5	2$^{13}/_{32}$x1$^{3}/_{8}$x1¼	Each	4.83	4.10	2.73
737-0810	4	4F	1.5	2⅝x2⅜x4$^{3}/_{32}$	Each	5.13	4.32	2.88
737-0910	706	532	4.5	2$^{1}/_{32}$x1$^{3}/_{16}$x2$^{23}/_{32}$	Each	5.40	4.55	3.03
737-0420	6	F4PI	6.0	2$^{1}/_{32}$x2$^{27}/_{32}$x4⅛	Each	3.80	3.20	2.19

ZINC CARBON "B" BATTERIES FOR ELECTRONIC USE

737-0970	710	4156	22½	3$^{1}/_{32}$x2$^{7}/_{8}$x2$^{29}/_{32}$	Each	8.91	7.50	5.00
737-0980	708	5156SC	22½	4⅞x2$^{3}/_{4}$x2$^{55}/_{64}$	Each	18.99	15.83	12.66
737-0990	709	5308	45	4$^{1}/_{16}$x2$^{1}/_{16}$x5⅛	Each	21.82	17.52	13.21
737R0430	224	K10	15	1¼x$^{7}/_{8}$x1$^{17}/_{32}$	Each	10.57	8.90	5.93
737-0490	202	M30	45	3$^{1}/_{16}$x1$^{3}/_{4}$x5½	Each	12.90	10.75	8.60
737-0580	208	U10	15	1x$^{35}/_{64}$x1$^{1}/_{16}$	Each	2.73	2.30	1.53
737-0590	215	U15	22½	1x$^{35}/_{64}$x1$^{31}/_{32}$	Each	2.92	2.46	1.64
737R0600	210	U20	30	1x$^{35}/_{64}$x2$^{17}/_{32}$	Each	3.61	3.04	2.02
737-0610	213	U30	45	1$^{3}/_{32}$x1$^{5}/_{32}$x3$^{17}/_{32}$	Each	6.29	5.30	3.53
737-0640	204	V60	90	3$^{23}/_{32}$x1$^{5}/_{32}$x3$^{11}/_{16}$	Each	12.90	10.75	8.60
737-0670	200	XX45	67½	2¾x11$^{1}/_{32}$x3$^{43}/_{64}$	Each	12.47	10.50	7.00
737-0690	220	Y10	15	1$^{5}/_{32}$x1$^{5}/_{32}$x1$^{23}/_{64}$	Each	3.28	2.76	1.84
737-0700	221	Y15	22½	1$^{5}/_{32}$x1$^{5}/_{32}$x1$^{31}/_{32}$	Each	4.20	3.54	2.36
737-0740	711	Z30NX	45	3$^{1}/_{32}$x1$^{7}/_{8}$x4$^{11}/_{32}$	Each	13.37	11.25	7.50

ZINC CARBON "C" BATTERIES FOR ELECTRONIC USE

Stock No.	NEDA No.	Mfr's Type	Voltage	Size In.	Standard Quantity	STANDARD QUANTITY 1-9	10-24	25-Up
737-2001	713	5540	7½	4x⅞x2¾	Each	9.50	8.00	5.33
737-2005	908	F4M	6	2⅝x2⅝x4⅞	Each	2.83	2.38	1.58

LANTERN BATTERIES

737-2006	915	F4BP	6	2⅝x2⅝x4	Each	3.30	2.78	1.85
737-2007	918	TW1	6	5⅜x2$^{7}/_{8}$x4$^{15}/_{16}$	Each	7.22	6.08	4.05
737-2008	926	TW2	12	5⅜x2$^{7}/_{8}$x4$^{15}/_{16}$	Each	8.31	7.00	4.67

PHOTO BATTERIES

*Alkaline; other is mercury. B denotes Blister pack.

Stock No.	Mfr's Type	Volts	Wt. Oz.	EACH 1-9	EACH 10-24	EACH 25-Up
853-0080	PX13B	1.35	0.14	1.94	1.55	1.03
853-0085	PX21*	4.45	1.2	3.24	2.59	1.73

SILVER OXIDE BATTERIES

853-0090	MS76B	1.56	0.8	1.49	1.19	.79

INDUSTRIAL BATTERIES

Long-life service on heavy-duty drain and long periods of use. Labeled "Not Designed for Retail Sales." Excellent for emergency use.

Stock No.	NEDA No.	Mfr's Type	Voltage	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-Up
737-0812	900E	4FH	1.5	1¼	3.42	2.88	1.92
737-0814	903	4F5H	7.5	7	13.89	11.58	9.26

ALKALINE BATTERIES

*Capacity in milliampere-hours.

Stock No.	Mfr's Types	Mfr's Types	Volts	Cap'y mAH*	Size	Dia. x Ht.	EACH 1-9	EACH 10-24	EACH 25-Up
853-0303	MN2400	AL7	1.5	750	AAA	$^{13}/_{32}$x1¾	.95	.80	.51
853-0304	MN9100	ALN	1.5	560	N	$^{29}/_{64}$x1⅛	.95	.80	.51

MERCURY BATTERIES Allied will supply name brand—whatever in stock.

†With snap terminals. *Capacity in milliampere-hours.

Stock No.	Mfr's Types	Mfr's Types	Volts	Cap'y mAH*	Dia. x Ht. or H.W.D. Inches	EACH 1-9	EACH 10-24	EACH 25-Up
853-0001	RM1	HG1	1.40	1000	⅜x$^{21}/_{32}$	1.93	1.54	1.04
853-0002	RM1R	HG1R	1.35	1000	⅜x$^{21}/_{32}$	2.25	1.80	1.22
853-0004	RM3R	HG3R	1.35	2200	1x$^{21}/_{32}$	3.55	2.84	1.92
853-0005	RM4R	HG4R	1.35	3400	1-1/5x$^{21}/_{32}$	4.58	3.66	2.47
853-0007	RM12	HG12	1.40	3600	⅝x$^{16}/_{64}$	3.30	2.64	1.78
853R0008	RM12R	HG12R	1.35	3600	⅝x2	3.55	2.84	1.92
853-0010	RM12RT2	HG12RT2	1.35	3600	⅝x$^{16}/_{64}$	4.05	3.24	2.19
853R0012	RM42R	HG42R	1.35	14000	1-1/5x2⅜	10.50	8.04	5.43
853-0013	RM42RT2	HG42RT2	1.35	14000	1-1/5x2⅝	10.55	8.44	5.70
853-0017	RM401	HG401	1.40	800	$^{29}/_{64}$x1⅛	1.94	1.55	1.05
853-0020	RM502R	HG502H	1.35	2400	½" dia.x1$^{31}/_{32}$	3.18	2.54	1.71
853-0023	RM601R	HG601R	1.35	1800	⅝x$^{15}/_{32}$	3.03	2.42	1.63
853-0024	RM625	HG625	1.40	350	⅝x¼	1.80	1.44	.97
853-0025	RM625R	HG625R	1.35	250	⅝x¼	2.00	1.60	1.08
853-0030	RM675	HG675	1.40	160	$^{29}/_{64}$x$^{13}/_{64}$	.95	.76	.51
853-0034	TR115R	H115R	6.75	250	$^{21}/_{32}$x$^{11}/_{16}$	6.78	5.42	3.66
853-0035	TR126	H126	8.40	600	¾x2	5.43	4.35	2.89
853-0036	TR132	H132	2.80	1000	$^{21}/_{32}$x$^{11}/_{16}$	3.86	3.09	2.09
853-0037	TR132R	H132N	2.70	1000	$^{27}/_{32}$x$^{11}/_{16}$	4.00	3.20	2.16
853-0038	TR133	H133	4.20	1000	$^{21}/_{32}$x2	4.81	3.85	2.60
853-0039	TR133R	H133R	4.05	1000	$^{21}/_{32}$x2	5.10	4.08	2.75
853R0040	TR134R	H134R	5.40	1000	$^{21}/_{32}$x2$^{5}/_{64}$	6.15	4.92	3.32
853-0041	TR135R	H135R	6.75	1000	$^{21}/_{32}$x3¼	7.25	5.80	3.92
853-0042	TR136	.....	8.4	1000	$^{21}/_{32}$ dia.x3$^{25}/_{32}$	6.85	5.48	3.70
853-0043	TR136R	H136R	8.10	1000	$^{21}/_{32}$x3$^{23}/_{32}$	8.23	6.58	4.44
853R0045	TR146X†	H146X	8.40	900	1$^{25}/_{32}$x1$^{1}/_{32}$x2$^{1}/_{32}$	3.83	3.06	2.07
853-0048	TR164	H164	5.60	500	$^{21}/_{32}$x1¾	4.69	3.75	2.53
853-0049	TR164R	H164R	5.40	500	$^{21}/_{32}$x1¾	6.23	4.98	3.36
853-0050	TR165	H165	7.00	500	$^{21}/_{32}$x2¾	5.94	4.75	3.21
853-0052	TR175	H175	7.00	350	$^{31}/_{64}$x1$^{1}/_{32}$	4.11	3.29	2.22
853-0053	TR177†	H177	9.80	160	$^{35}/_{64}$x1$^{23}/_{32}$	4.13	3.30	2.23
853-0054	TR233R	.....	4.05	2200	1$^{5}/_{64}$x1$^{31}/_{32}$	9.13	7.30	4.93
853-0059	TR235R	.....	6.75	2200	1⅛ dia.x3¼	14.63	11.70	7.80
853-0055	TR286†	P6	8.40	750	1$^{15}/_{64}$x$^{13}/_{16}$	5.65	4.55	3.01
853-0056	TR289†	PM8	12.6	750	1x2$^{25}/_{64}$	9.24	7.39	4.99
853-0061	TR431S	.....	11.2	1000	1 dia.x3$^{39}/_{64}$	8.73	6.98	4.71
853R0057	ZM9	HG9	1.40	2400	$^{9}/_{16}$x1$^{31}/_{32}$	2.11	1.69	1.14

RECHARGEABLE NICKEL-CADMIUM CYLINDRICAL CELL BATTERIES

(*10-hr. Discharge Rate in mA)

Stock No.	Mfr's Type	Volts	Size (Inches)	Wt. (Oz.)	*	Replaces Size	EACH 1-9	EACH 10-24	EACH 25-Up
737-0130	CD6 (AA)	1.25	$^{9}/_{16}$Dx1$^{61}/_{64}$	1	45	N	4.73	3.98	2.65
737-0140	CD6L (AA)	1.25	$^{9}/_{16}$Dx1$^{61}/_{64}$	1	45	N	4.98	4.16	2.77
737-0200	CD10 (D)	1.25	1$^{19}/_{64}$Dx2$^{27}/_{64}$	5	400	N	12.99	10.83	8.66
737-0210	CD10L (D)	1.25	1$^{19}/_{64}$Dx2$^{49}/_{64}$	5	400	N	12.99	10.83	8.66
737-0230	CD12 (short C)	1.25	$^{7}/_{8}$Dx1$^{23}/_{64}$	2	120	N	6.56	5.50	3.67
737-0250	CD14 (C)	1.25	1$^{1}/_{64}$Dx$^{61}/_{64}$	3	190	...	9.74	8.21	5.47
737-0270	CD22	6.1	1$^{1}/_{16}$Dx1$^{31}/_{32}$	12	22	Y5201	20.50	17.13	13.65
737-0330	CD28	12.2	1$^{1}/_{16}$Dx3$^{19}/_{32}$	12	22	Y5386	39.95	33.97	27.98
737-0340	CD29	12.2	1$^{51}/_{64}$Dx3$^{7}/_{64}$	20	45	Y5511	74.46	62.05	49.64

RECHARGEABLE NICKEL CADMIUM BATTERIES

Can be charged and discharged up to 500 times to save you both time and money. Top performance no matter how many times it's been recharged. Both "C" and "D" cells are rated 1.25V, "AA" is rated 1¼V and sold in packages of 2.

Stock No.	Mfr's Type	Size	Wt. Oz.	Per Pkg. of 2
910-5175	23-123	"D"	5	5.59
910-5176	23-124	"C"	2½	5.39
910-5177	23-125	"AA"	1	4.19

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

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ROTARY SWITCHES CROSS REFERENCE

Stock No.	Page No.	CRL	CTS	Mallory	OAK
747-1001	164	PA1001	T205	4M21111	399419K
747-1003	164	PA1003	T206	4M2215	399427K
747-1005	164	PA1005	T215	4M21211	399421K
747-1007	164	PA1007	T207	4M2313	399491K
747-1009	164	PA1009	T225	4M21311	399423K
747-1013	164	PA1013	T216	4M2225	399429K
747-1015	164	PA1015	T235	4M21411	399425K
747-1017	164	PA1017	....	4M21511	399733K
747-1019	164	PA1019	T217	4M2323	399493K
747-1021	164	PA1021	T226	4M2235	399431K
747-2000	164	PA2000	....	4M1112C	399468JC
747-2001	164	PA2001	....	4M2112C	399469JC
747-2002	164	PA2002	....	4M1216C	399476JC
747-2003	164	PA2003	....	4M2216C	399477JC
747-2004	164	PA2004	....	4M11212C	399470JC
747-2005	164	PA2005	....	4M21212C	399471JC
747-2006	164	PA2006	....	4M1315C	399704JC
747-2007	164	PA2007	....	4M2315C	399705JC
747-2008	164	PA2008	....	4M11312C	399472JC
747-2009	164	PA2009	....	4M21312C	399473JC
747-2010	164	PA2010	....	4M1226C	399478JC

Stock No.	Page No.	CRL	CTS	Mallory	OAK
747-2011	164	PA2011	....	4M2226C	399479JC
747-2013	164	PA2013	....	4M21412C	399475JC
747-2015	164	PA2015	....	.....	399839JC
747-2019	164	PA2019	....	4M2612C	399485JC
747-2021	164	PA2021	....	4M2325C	399697JC
747-2023	164	PA2023	....	.....	399481JC
747-2025	164	PA2025	....	.....	399843JC
747-2027	164	PA2027	....	4M2246C	399699JC
747-2029	164	PA2029	....	4M2335C	399709JC
747-2031	164	PA2031	....	4M2523C	399711JC
747-2035	164	PA2035	....	4M2622C	399487JC
747-2037	164	PA2037	....	4M2266C	399715JC
747-2041	164	PA2041	....	4M2632C	399719JC
747-1403	164	1403	....	4M21111	399513H
747-1413	164	1413	....	4M2121	399515H
747-1415	164	1415	....	4M2225	399521H
747-2501	164	2501	....	4M21112C	399575HC
747-2503	164	2503	....	4M21112C	399563HC
747-2505	164	2505	....	4M2216C	399569HC
747-2513	164	2513	....	.....	399566HC
747-2525	164	2525	....	4M2236C	399573HC

CROSS TO CARLING

Stock No.	Page No.	Cutler-Hammer	Carling
757-4070	135	7502K13	2FC54-73
757-4500	135	7560K5	2GK54-73
757-4940	135	7590K4	2GK64-73
757-4805	135	7565K5	2GL50-73
757-4590	135	7562K4	2GM54-73
757-5080	135	7612K2	HM254-73
757-6840	135	8370K7	2BK62-73
757-6910	135	8373K7	2BL63-73
757-4021	135	7501K13	2FA53-73
757-4001	135	7500K14	2FA54-73
757-4888	135	7580K7	2FA63-72
757-4887	135	7580K6	2FA63-73

CROSS TO DIP SWITCHES

Stock No.	Mfr's Type	Page	Control Switch	AMP/STD	CTS
801-7605	76B02	161	SL1002	2-435166-9	206-2
801-7615	76B03	161	SL1003	3-435166-0	206-3
801-7625	76B04	161	SL1004	435166-2	206-4
801-7635	76B05	161	SL1005	435166-3	206-5
801-7645	76B06	161	SL1006	435166-4	206-6
801-7655	76B07	161	SL1007	435166-1	206-7
801-7665	76B08	161	SL1008	435166-5	206-8
801-7675	76B09	161	SL1009	435166-6	206-9
801-7685	76B10	161	SL1010	435166-7	206-10

Stock No.	Mfr's Type	Page	Molex	RCL	SAE
757-0192	SE2AV591-2	161	01-20-102	P1P-2	1002
757-0193	SE2AV591-3	161	01-20-103	P1P-3	1003
757-0194	SE2AV591-4	161	01-20-104	P1P-4	1004
757-0195	SE2AV591-5	161	01-20-105	P1P-5	1005
757-0196	SE2AV591-6	161	01-20-106	P1P-6	1006
757-0197	SE2AV591-7	161	01-20-107	P1P-7	1007
757-0198	SE2AV591-8	161	01-20-108	P1P-8	1008
757-0199	SE2AV591-9	161	01-20-109	P1P-9	1009
757-0200	SE2AV591-10	161	01-20-110	P1P-10	1010

SWITCH SEAL CROSS TO CUTLER-HAMMER

Stock No.	Page No.	Mfr's Type	Equivalent
760-0001	157	50151	SW1AN1030
760-0008	157	5168	SW1BN1030
760-0051	157	40151	SW1AN3030
760-0052	157	40152	SW1ANC3030
760-0022	157	30122	SW1AN9030-14
760-0152	157	80151	SW1AN1111-4

CROSS TO MINIATURE SWITCHES

Stock No.	Page No.	Mfr's Type	Alco	Micro	C&K	Cutler-Hammer	
						Black Case	Cricket
652-0500	155	105D	MST105D	1TW1-3	7101SYZ	.....	.....
652-0503	155	105E	MST105E	1TW1-1	7103SYZ	.....	.....
652-0504	155	105F	MST105F	.....	7109SYZ	.....	.....
662-0505	155	105G	MST105G	1TW1-7	7105SYZ	.....	.....
652-0506	155	105H	MST105H	1TW1-5	7107SYZ	.....	.....
652-0507	155	205N	MST205N	2TW1-3	7201SYZ	.....	.....
652-0509	155	205P	MST205P	2TW1-1	7203SYZ	.....	.....
652-0510	155	205PA	MST205PA	.....	7211SYZ	.....	.....
653-0511	155	205R	MST205R	.....	7209SYZ	.....	.....
652-0512	155	205S	MST205S	2TW1-9	7205SYZ	.....	.....
652-0514	155	205T	MST205T	2TW1-5	7207SYZ	.....	.....
652-0517	155	305D	MST305D	.....	7301SYZ	.....	.....
652-0518	155	305E	MST305F	.....	7303SYZ	.....	.....
652-0520	155	405N	MST405N	.....	7401SYZ	.....	.....
652-0521	155	405P	MST405P	.....	7403SYZ	.....	.....
826-1353	155	JMT-123	MTA106D	.....	7101SYZ	SF1SCY191	SF21SCW191
826-1351	155	JMT-121	MTA106E	.....	7103SYZ	SF1SBX191	SF21SBW191
826-1356	155	JMT-126	MTA106F	.....	7108SYZ	SF1SGX191	SF21SGW191
836-1357	155	JMT-127	MTA106G	.....	7105SYZ	SF1SHX191	SF21SHW191
836-1361	155	JMT-131	MTA106H	.....	7107SYZ	SF1SFX191	SF21SFW191
826-1383	155	JMT-223	MTA206N	.....	7201SYZ	SF2SCYQ91	SF22SCW191
826-1381	155	JMT-221	MTA206P	.....	7203SYZ	SF2SBX191	SF22SBW191
826-1386	155	JMT-226	MTA206R	.....	7208SYZ	SF2SGX191	SF22SGW191
826-1387	155	JMT-227	MTA206S	.....	7205SYZ	SF2SHX191	SF22SHW191
826-1391	155	JMT-231	MTA206T	.....	7207SYZ	SF2SFX191	SF22SFW191
826-1392	155	JMT-232	MTA206PA	.....	7211SYZ	.....	.....
826-1423	155	JMT-323	MTA306D	.....	7301SYZ	SF3SCY191	SF23SC191
826-1421	155	JMT-321	MTA306E	.....	7303SYZ	SF3SBX191	SF23SB191
826-1453	155	JMT-423	MTA406N	.....	7401SYZ	SF4SCY191	SF24SCW191
826-1451	155	JMT-421	MTA406P	.....	7403SYZ	SF4SBX191	SF24SBW191
826-1462	155	JMT-432	MTA406PA	.....	7411SYZ	.....	.....

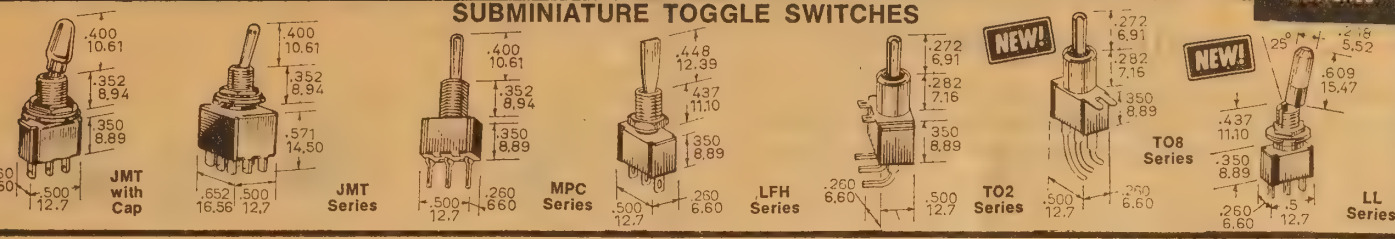
CROSS TO MICRO

Stock No.	Page No.	Mfr's Type	Equivalent	
			Micro	Robertshaw
905-1215	166	FAD2-1A-1S	BA-2R-A2	.....
905-1240	166	FAD2-5L-1S	BA-2RL-A2	.....
905-1229	166	FAD2-1P-1S	BA-2RQ1-A2	.....
905-1202	166	FAD2-LV-1S	BA-2RV-A2	.....
905-1204	166	FAD2-LV2-1S	BA-2RV2-A2	.....
905-0455	166	BRD2-1A*	BZ-2R	.....
905-0454	166	BRD2-1A-1S	BZ-2R-A2	.....
905-0493	166	BRD2-5L*	BZ-2RL	.....
905-0495	166	BRD2-5L-1S	BZ-2RL-A2	.....
905-0473	166	BRD2-2M*	BZ-2RL2	.....
905-0478	166	BRD2-2M-1S	BZ-2RL2-A2	.....
905-0498	166	BRD2-70-1S	BZ-2RD-1A	.....
905-0457	166	BRD2-1P*	BZ-2RQ1	.....
905-0458	166	BRD2-1P-1S	BZ-2RQ1-A2	.....
905-0461	166	BRD2-10-1S	BZ-2ES-A2	.....
905-0372	166	BRD2-LW8*	BZ-2RW	.....
905-0374	166	BRD2-LW8-1S	BZ-2RW-A2	.....
905-0389	166	BRD2-LW228*	BZ-2RW22	.....
905-0391	166	BRD2-LW228-1S	BZ-2RW22-A2	.....
757-0660	166	SS12ET10	V3-1	VD0007
757-0663	166	SS12ET20	V3-19	VD0001
757-0666	166	SS12ET30	V3-1-D8	E23-024
757-0669	166	SS12ET302L1	V3L-1-D8	E33-00H
757-0672	166	SS12ET302L2	V3L-2-D8	E33-50H
757-0675	166	SS12ET302L6	V3L-6-D8	.....
757-0677	166	SS12T302L14	V3L-14-D8	.....
757-0690	166	SS12ET3012L5	V3L-5-D8	.....
757-0691	166	SS12ET30102L3	V3L-3-D8	.....
757-0692	166	SS12ET30102L4	V3L-4-D8	E33-50K
757-0610	166	SS10AT40	1SX1-T	.....
757-0612	166	SS10ET40	2SX1-T	.....
757-0616	166	SS10KT40	3SX1-T	.....
757-1201	166	SW54SA8380-1	JX40	.....
757-1202	166	SW54SA8380-2	JX41	.....
757-1203	166	SW54SA8380-3	JX45	.....
757-1205	166	SW54SA8380-5	JX20	.....

See Page 2 for the Allied Electronics Facility Nearest You

Subminiature Toggle Switches and Accessories

SUBMINIATURE TOGGLE SWITCHES



JMT Series. For manual control, solid-state devices and miniature circuits. Single pole types are ¼" thin, double pole less than ½" square, three and four-pole also small. Single hole mounting, ¼" threaded bushing. Nominal rating: 5 amps, 125 VAC or 24 VDC. Initial contact resistance: 5 milliohms. Insulation resistance: 10,000 megohms. Life under load: 100,000 make/break cycles. Bat handles have 30° throw. Silver contacts. Solder terminals. **MPC Series.** Subminiature switches similar to JMT series are for direct insertion in PC boards. Terminals are gold plate over nickel. Average shpg. wt.1 oz.

LFH Series. Subminiature switches with flat handle for easy grasp and good sensing in direction of throw. Solder terminals rated 5 amps at 125 VAC or 24 VDC, 3 amps at 250 VAC.

TO2 Series. Right-angle mounting switches for PC boards; horizontal position. Rated 0.5 VA at 28 volts AC/DC.

TO8 Series. Right-angle mounting switches for PC boards; vertical position. Rated 0.5 VA at 28 volts AC/DC.

LL Series. Lever lock switches with anodized aluminum cap. Solder terminals. Rated 5 amps resistive at 125 VAC/28 VDC; 5 amps inductive, 0.75 pF, at 125 VAC.

All switches include mounting hardware. Average shipping weight, 1 oz.

SPDT—3 TERMINALS (*Momentary position)

Stock No.	Mfr's Type	Action	EACH 1-24	25-99	100-499	500-Up
826-1351	JMT-121	On-Off-On	2.05	1.40	1.23	1.08
826-1353	JMT-123	On-None-On	1.76	1.20	1.05	.93
826-1356	JMT-126	On-None-On*	2.05	1.40	1.23	1.08
826-1357	JMT-127	On*-Off-On*	2.05	1.40	1.23	1.08
826-1361	JMT-131	On-Off-On*	2.05	1.40	1.23	1.08
826-2501	MPC-121	On-Off-On	2.21	1.50	1.33	1.18
826-2503	MPC-123	On-None-On	1.87	1.30	1.15	1.03

DPDT—6 TERMINALS (*Momentary position)

826-1381	JMT-221	On-Off-On	2.80	1.90	1.68	1.48
826-1383	JMT-223	On-None-On	2.47	1.63	1.44	1.28
826-1386	JMT-226	On-None-On*	2.80	1.90	1.68	1.48
826-1387	JMT-227	On*-Off-On*	2.80	1.90	1.68	1.48
826-1391	JMT-231	On-Off-On*	2.80	1.90	1.68	1.48
826-1392	JMT-232	On-On-On	3.08	2.10	1.85	1.63
826-2505	MPC-221	On-Off-On	3.15	2.10	1.88	1.68
826-2507	MPC-223	On-None-On	2.81	1.83	1.64	1.48

3PDT—9 TERMINALS (*Momentary position)

826-1421	JMT-321	On-Off-On	4.42	3.02	2.64	2.33
826-1423	JMT-323	On-None-On	4.14	2.82	2.47	2.18
826-1427	JMT-327	On*-Off-On*	4.42	3.02	2.64	2.33
826-2601	MPC-321	On-Off-On	4.93	3.32	2.94	2.63
826-2603	MPC-323	On-None-On	4.65	3.12	2.77	2.48

4PDT—12 TERMINALS

826-1451	JMT-421	On-Off-On	5.72	3.87	3.42	3.00
826-1453	JMT-423	On-None-On	5.33	3.60	3.18	2.80
826-1462	JMT-432	On-On-On	7.01	4.37	3.85	3.60
826-2701	MPC-421	On-Off-On	6.40	4.27	3.82	3.40
826-2703	MPC-423	On-None-On	6.01	4.00	3.58	3.20

COLOR CODED CAPS FOR JMT AND MPC SERIES

Add suffix 0 through 9 to replace X in Stock No., to indicate color desired. 0—black; 1—brown; 2—red; 3—orange; 4—yellow; 5—green; 6—blue; 7—violet; 8—grey; 9—white.

826-134X. Package of 100 per color. **1-3 Pkgs.**.....**Each 2.50**
4-19 Pkgs......**Each 2.00** **20-Up Pkgs.**.....**Each 1.43**

SPDT—3 TERMINALS

Stock No.	Mfr's Type	Action	EACH 1-24	25-99	100-499	500-Up
826-2321	LFH-121	On-Off-On	2.78	1.90	1.73	1.58
826-2323	LFH-123	On-None-On	2.51	1.70	1.55	1.43
826-4811	TO2-121	On-Off-On	2.47	1.65	1.48	1.33
826-4813	TO2-123	On-None-On	2.19	1.45	1.30	1.18
826-5001	TO8-121	On-Off-On	2.47	1.65	1.48	1.33
826-5003	TO8-123	On-None-On	2.19	1.45	1.30	1.18
826-2201	LL-121	On-Off-On	3.10	2.10	1.93	1.78
826-2203	LL-123	On-None-On	2.83	1.90	1.75	1.63

DPDT—6 TERMINALS

826-2414	LFH-221	On-Off-On	3.55	2.40	2.18	1.98
826-2416	LFH-223	On-None-On	3.21	2.13	1.94	1.78
826-4821	TO2-221	On-Off-On	3.66	2.40	2.18	1.98
826-4823	TO2-223	On-None-On	3.32	2.13	1.94	1.78
826-5011	TO8-221	On-Off-On	3.66	2.40	2.18	1.98
826-5013	TO8-223	On-None-On	3.32	2.13	1.94	1.78
826-2211	LL-221	On-Off-On	3.87	2.63	2.38	2.18
826-2213	LL-223	On-None-On	3.53	2.33	2.14	1.98

3PDT—9 TERMINALS

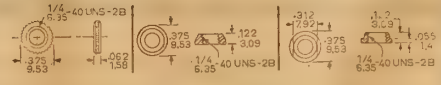
826-2421	LFH-321	On-Off-On	5.16	3.52	3.14	2.83
826-2423	LFH-323	On-None-On	4.89	3.32	2.97	2.68

4PDT—12 TERMINALS

826-2431	LFH-421	On-Off-On	6.46	4.37	3.92	3.50
826-2433	LFH-423	On-None-On	6.08	4.10	3.68	3.30

NEW!

DRESS NUTS



For Toggle Switches with ¼-40 UNS—2A Bushings

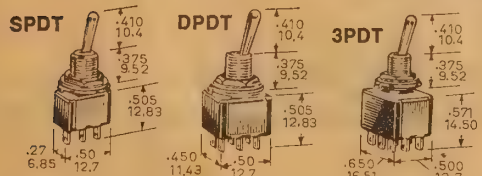
W-NU-12 **W-NU-17A** **W-NU-18A**

Stock No.	Mfr's Type	Description	EACH 1-24	25-49	50-Up
826-5912	W-NU-12	Knurled	.08	.06	.04
826-5917	W-NU-17A	Beveled	.08	.06	.04
826-5918	W-NU-18A	Beveled with Flats	.13	.09	.06

NEW!

ULTRAMINIATURE TOGGLE SWITCHES

- **High Current Capacity—5 Amps at 115 VAC/28 VDC**
- **Ultra-Small Design, Ideal for Applications Where Front and Rear Space is Limited**



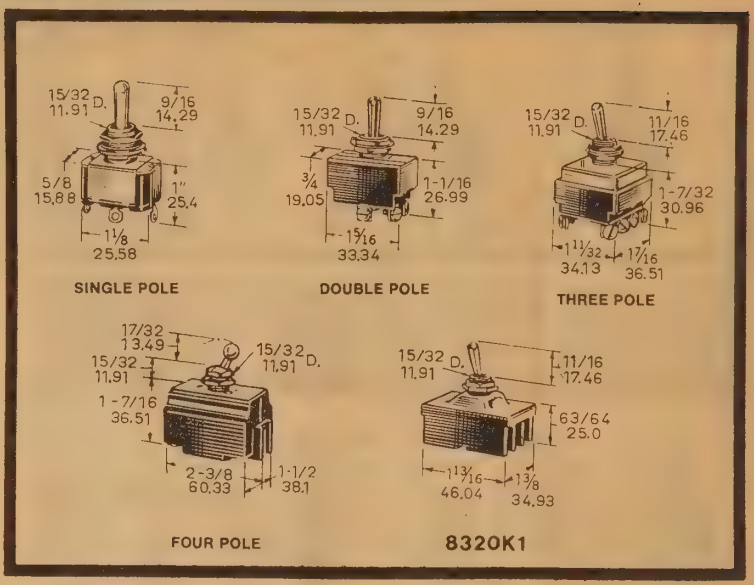
Ultra-small toggle switch combines high current capacity and long life. Small case is ideal for use in miniaturized equipment with front and rear space limitations. Rated 5 amps at 115 VAC or 28 VDC. Initial contact resistance: below 20 milliohms at 2-4 VDC, 1 amp. Solid silver contacts and terminals (center terminal is copper with silver plate). Has ¼"-40 bushing with keyway. Well-spaced solder terminals assure easy soldering. *In table indicates Momentary contact.

Stock No.	Mfr's Type	Poles/ Throw	Action	EACH 1-24	25-499	500-999	1000-Up
652-0495	105B	SPDT	On-None-On*	2.05	1.08	.97	.87
652-0500	105D	SPDT	On-None-On	1.95	.93	.84	.76
652-0503	105E	SPDT	On-Off-On	2.05	1.08	.97	.87
652-0504	105F	SPDT	None-On-On*	2.05	1.08	.97	.87
652-0505	105G	SPDT	On*-Off-On*	2.05	1.08	.97	.87
652-0506	105H	SPDT	On-Off-On	2.05	1.08	.97	.87
652-0508	205B	DPDT	On-None-On*	2.75	1.48	1.33	1.20
652-0507	205N	DPDT	On-None-On	2.35	1.28	1.15	1.03
652-0509	205P	DPDT	On-Off-On	2.75	1.48	1.33	1.20
652-0510	205PA	DPDT	On-On-On	3.05	1.63	1.47	1.32
652-0511	205R	DPDT	None-On-On*	2.75	1.48	1.33	1.20
652-0512	205S	DPDT	On*-Off-On*	2.75	1.48	1.33	1.20
652-0513	205SA	DPDT	On*-On-On*	3.35	1.78	1.60	1.44
652-0514	205T	DPDT	On-Off-On*	2.75	1.48	1.33	1.20
652-0515	205TA	DPDT	On-On-On*	3.35	1.78	1.60	1.44
652-0516	305B	3PDT	On-None-On*	4.35	2.33	2.10	1.89
652-0517	305D	3PDT	On-None-On	4.05	2.18	1.96	1.76
652-0518	305E	3PDT	On-Off-On	4.05	2.18	1.96	1.76
652-0519	305H	3PDT	On-Off-On*	4.35	2.33	2.10	1.89
652-0520	405N	4PDT	On-None-On	5.20	2.80	2.52	2.27
652-0521	405P	4PDT	On-Off-On	5.60	3.00	2.70	2.43
652-0522	405PA	4PDT	On-On-On	6.35	3.60	3.24	2.92

AC and AC-DC Rated Toggle Switches

AC RATED TOGGLE SWITCHES

Slow-make, slow-break rocker style contact. Spade terminals, ¼" wide. Mounting hardware included. UL/CSA listed. †Momentary contact in "On" position. All have 11/32" bushing length, except ‡ have 15/32".



SINGLE POLE

Stock No.	Mfr's Type	Circuit	Amps @ 125V	Amps @ 250V	HP @ 250VAC	Terminals	EACH 1-24	EACH 25-Up
757-4885	‡7580K4	On-Off	6	3	..	Screw	1.39	1.07
757-4888	7580K7	On-Off	6	3	..	Solder	1.19	.92
757-4887	‡7580K6	On-Off	6	3	..	Solder	1.19	.92
757-4001	‡7500K14	On-Off	15	10	¾	Screw	1.58	1.22
757-4021	‡7501K13	On-Off	15	10	¾	Solder	1.39	1.07
757-4022	‡7501K15	On-Off	15	10	¾	Spade	1.39	1.07
757-4926	‡7582K6	On-On	6	3	..	Solder	1.29	1.00
757-4201	‡7504K4	On-On	15	10	¾	Screw	1.86	1.44
757-4225	‡7505K4	On-On	15	10	¾	Solder	1.58	1.22
757-4906	‡7581K6	On-Off-On	6	3	..	Solder	1.29	1.00
757-4070	‡7502K13	On-Off-On	15	10	¾	Screw	1.86	1.44
757-4270	‡‡7509K5	†On-Off-†On	..	10	½	Screw	2.42	1.87
757-4091	7503K13	On-Off-On	15	10	⅜	Solder	1.58	1.22
757-4093	‡7503K15	On-Off-On	15	10	⅜	¼" Spade	1.58	1.22
757-4227	‡7505K6	On-On	15	10	¾	¼" Spade	1.58	1.22
757-4870	7576K2	On-Off	30	25	..	Screw	2.83	2.19
757-4890	7580K9	On-Off	6	3	..	¼" Spade	1.19	.92
757-4904	‡7581K4	On-Off-On	6	3	..	Screw	1.58	1.22
757-4924	‡7582K4	On-On	6	3	..	Screw	1.58	1.22
757-4928	‡7582K8	On-On	6	3	..	¼" Spade	1.29	1.00

DOUBLE POLE

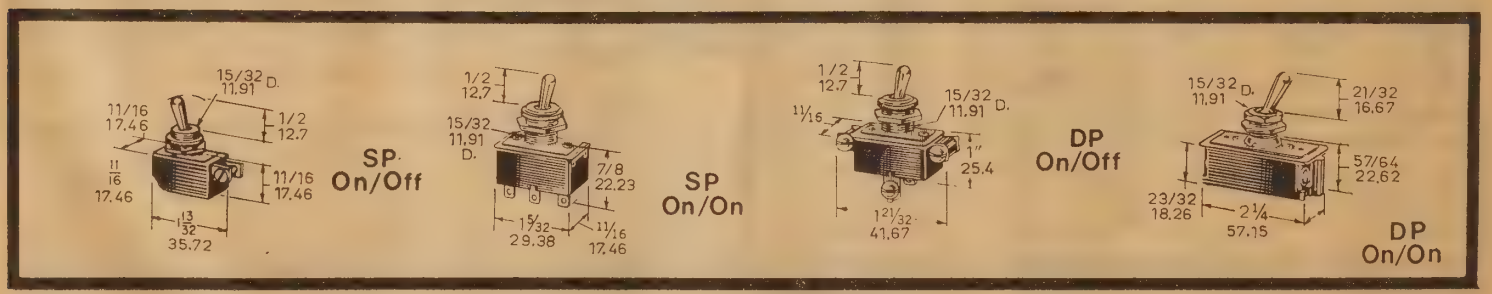
757-4940	‡7590K4	On-Off	6	3	..	Screw	2.15	1.66
757-4942	‡7590K6	On-Off	6	3	..	Solder	1.75	1.36
757-4500	‡7560K5	On-Off	15	10	¾	Screw	2.55	1.97
757-4560	‡7561K4	On-Off	15	10	¾	Solder	2.15	1.66
757-5004	‡7592K4	On-On	6	3	..	Screw	2.55	1.97
757-5006	‡7592K6	On-On	6	3	..	Solder	1.97	1.52
757-4760	‡7564K6	On-On	15	10	¾	Screw	3.13	2.42
757-4805	‡7565K5	On-On	15	10	¾	Solder	2.55	1.97
757-4970	‡7591K4	On-Off-On	6	3	..	Screw	2.55	1.97
757-4972	‡7591K6	On-Off-On	6	3	..	Solder	1.97	1.52
757-4590	‡7562K4	On-Off-On	15	10	¾	Screw	3.13	2.42
757-4562	‡7561K6	On-Off	15	10	¾	¼" Spade	2.15	1.66
757-4720	‡7563K4	On-Off-On	15	10	¾	Solder	2.55	1.97
757-4722	‡7563K6	On-Off-On	15	10	¾	¼" Spade	2.55	1.97
757-4807	‡7565K7	On-On	15	10	¾	¼" Spade	2.55	1.97

THREE POLE (All have 15/32" Bushing Length)

Stock No.	Mfr's Type	Circuit	Amps @ 125V	Amps @ 250V	HP @ 250VAC	Terminals	EACH 1-24	EACH 25-Up
757-5070	7610K2	On-Off	15	10	1	Screw	4.65	3.61
757-5071	7611K2	On-Off	15	10	1	Solder	4.00	3.10
757-6620	8320K1	On-Off	..	20	2	Screw	8.58	6.72
757-5090	7614K2	On-On	15	10	1	Screw	5.91	4.57
757-5095	7615K2	On-On	15	10	1	Solder	4.91	3.80
757-5080	7612K2	On-Off-On	15	10	1	Screw	5.91	4.57
757-5085	7613K2	On-Off-On	15	10	1	Solder	4.91	3.80
757-5074	7611K4	On-Off	15	10	1	¼" Spade	4.01	3.10
757-5087	7613K4	On-Off-On	15	10	1	¼" Spade	4.91	3.80
757-5097	7615K4	On-On	15	10	1	¼" Spade	4.91	3.80

FOUR POLE (All have 15/32" Bushing Length)

Stock No.	Mfr's Type	Circuit	Amps @ 125V	Amps @ 250V	HP @ 250VAC	Terminals	EACH 1-24	EACH 25-Up
757-5170	7690K8	On-Off	15	10	¾	Screw	6.69	5.18
757-5205	7695K5	On-On	15	10	¾	Solder	7.35	5.69
757-5182	7692K13	On-Off-On	15	10	¾	Screw	8.33	6.45
757-5184	7691K14	On-Off	15	10	¾	Solder	6.03	4.67
757-5190	7693K2	On-Off-On	15	10	¾	Solder	7.35	5.69
757-5194	7694K4	On-On	15	10	¾	Screw	8.33	6.45



AC-DC RATED TOGGLE SWITCHES

Quick-make, quick-break contact with wiping action. Arc-resistant. 15/32" diameter bushing; mounting hardware included. U.L. and C.S.A. listed. All have 11/32" bushing length, except (†) have 15/32". Wt. 2 oz.

SINGLE POLE 2-POSITION SWITCHES

Stock No.	Mfr's Type	Circuit	Amps @. 125V	Amps @. 250V	HP @ 250V AC	HP @ 250V DC	Terminals	EACH 1-24	EACH 25-Up
757-6302	8280K15	On-Off	..	3	..	..	Solder	1.33	1.03
757-6303	†8280K16	On-Off	..	6	..	..	Solder	1.33	1.03
757-6535	8290K15	On-Off	..	3	..	..	Wire	1.60	1.24
757-6555	8295K7	On-Off	..	3	..	..	Screw	1.60	1.24
757-6566	†8295K8	On-Off	..	3	..	..	Screw	1.60	1.24
757-7040	8381K7	On-Off	6	3	..	..	Solder	1.38	1.06
757-7041	†8381K8	On-Off	6	3	..	..	Solder	1.38	1.06
757-7086	†8391K8	On-Off	6	3	..	..	Wire	1.63	1.26
757-7096	8396K7	On-Off	6	3	..	..	Screw	1.63	1.26
757-3751	†7321K3	On-Off	16	8	*	*	Screw	2.70	2.09
757-3770	†7361K5	On-Off	20	10	1	1½	Screw	4.53	3.51
757-6380	8282K13	On-On	3	1	..	..	Solder	1.68	1.30
757-6381	8282K14	On-On	3	1	..	..	Solder	1.68	1.30
757-6536	8290K16	On-Off	..	*3	..	..	Wire	1.60	1.24
757-7085	8391K7	On-Off	6	3	..	..	Wire	1.63	1.26
757-7097	8396K8	On-Off	6	3	..	..	Screw	1.63	1.26

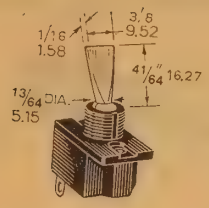
*Rated 1 HP @125VAC and DC.

DOUBLE POLE 2-POSITION SWITCHES

Stock No.	Mfr's Type	Circuit	Amps @ 125V	Amps @ 250V	HP @ 250V AC	HP @ 250V DC	Terminals	EACH 1-24	EACH 25-Up
757-6840	8370K7	On-Off	6	3	..	..	Solder	2.43	1.88
757-6895	†8372K7	On-Off	6	3	..	..	Screw	2.95	2.29
757-3720	7320K2	On-Off	16	8	*	*	Screw	2.50	1.93
757-3721	†7320K3	On-Off	16	8	*	*	Screw	2.50	1.93
757-3760	7360K7	On-Off	20	10	1	1½	Screw	4.30	3.32
757-3761	†7360K8	On-Off	20	10	1	1½	Screw	4.30	3.32
757-3802	7402K3	On-Off	20	20	2	2	Screw	5.78	4.47
757-3803	†7402K4	On-Off	20	20	2	2	Screw	5.78	4.47
757-6910	†8373K7	On-On	6	3	..	..	Solder	2.78	2.15
757-7005	†8375K7	On-On	6	3	..	..	Screw	3.60	2.78
757-6886	8371K7	On-Off	6	3	..	..	Wire	3.12	2.42
757-7672	8690K2	On-On	15	10	..	..	Screw	9.00	6.97

*Rated 1 HP @125VAC and DC.

AC-DC "DESIGNER LINE" TOGGLE SWITCHES



The lever and bushing on these switches are constructed of durable, high strength thermo plastic. 3 colors. Double insulated, quick-make, quick-break contact mechanism. Nylon bushing. 15/32" dia., 11/32" long. Solder lug terminals. U.L./CSA listed. Av. shpg. wt. 2 oz.

ON-OFF CIRCUIT

SINGLE POLE (6 A @ 125 V, 3 A @ 250 V)

Stock No.	Mfr's Type	Lever Color	EACH 1-24	EACH 25-Up
757-7050	8381K21C	White	1.36	1.05
757-7052	8381K22C	Red	1.36	1.05
757-7070	8381K27C	Black	1.36	1.05

DOUBLE POLE (6 A @ 125 V, 3 A @ 250 V)

757-6860	8370K21C	White	2.27	1.76
757-6862	8370K22C	Red	2.27	1.76
757-6880	8370K27C	Black	2.27	1.76

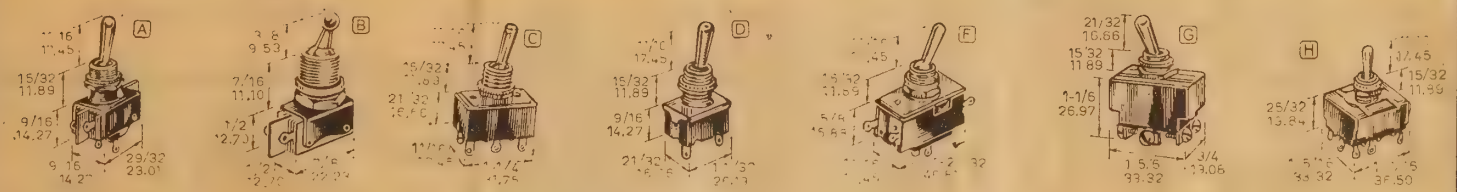
ON-ON CIRCUIT

SINGLE POLE (3 A @ 125 V, 1 A @ 250 V)

Stock No.	Mfr's Type	Lever Color	EACH 1-24	EACH 25-Up
757-6501	8282K21C	White	1.65	1.28
757-6503	8282K22C	Red	1.65	1.28
757-6520	8282K27C	Black	1.65	1.28

DOUBLE POLE (6 A @ 125 V, 3 A @ 250 V)

757-6920	8373K21C	White	2.58	1.99
757-6922	8373K22C	Red	2.58	1.99
757-6940	8373K27C	Black	2.58	1.99



TOGGLE SWITCHES FOR INDUSTRIAL AND COMMERCIAL APPLICATIONS

Small laminated canopy, intermediate, molded heavy-duty power and midget switches. Figure G is AC only. All have 15/32 inch shank. Shank diameter measures 15/32 inch. † Fine silver button.

Solder terminals except # which indicates screw. 2 mounting nuts. ‡Ball handle. Switches are U.L. recognized. Average weight is 4 ounces.

SPST (2-POSITION — ON-OFF) *Momentary

Stock No.	Mfr's Type	Fig.	Amperes 125V	Amperes 250V	hp	Wiping Action	Silver-Plated Contacts	Silver-Plated Terms	EACH 1-24	EACH 25-99	EACH 100-Up
717-0330	20994LH	A	3	1	...	No	No	No	2.68	2.14	1.34
717-0325	20994CS	B	3	1	...	No	No	No	2.68	2.14	1.34
717-0472	81045FB*	C	5	3	...	Yes	Yes	No	3.30	2.64	1.65
717-0616	83050	D	3	1	...	Yes	Yes	Yes	2.15	1.72	1.08

SPDT (2-POSITION — ON-ON) *Momentary

717-0473	81051G*	C	6	1	...	Yes	Yes	No	3.30	2.64	1.65

SPDT (3-POSITION — ON-OFF-ON)

717-0510	82022HD	F	6	3	...	Yes	Yes	No	4.16	3.33	2.08

DPST (2-POSITION — ON-OFF) *Momentary N.O.

Stock No.	Mfr's Type	Fig.	Amperes 125V	Amperes 250V	hp	Wiping Action	Silver-Plated Contacts	Silver-Plated Terms	EACH 1-24	EACH 25-99	EACH 100-Up
717-0302	20902CX	A	3	1	...	No	No	No	4.88	3.90	2.44
717-0475	81054H*	C	6	3	...	Yes	Yes	No	4.88	3.90	2.44
717-0619	83053	D	3	1	...	Yes	Yes	Yes	3.19	2.55	1.60
717-0440	80600B#	H	16	8	1	Yes	Yes	Yes	3.27	2.62	1.64
717-0417	80421#	H	..	20	1½	Yes	Yes	Yes	8.70	6.96	4.35
717-0538	62606#	G	15	10	¾	No	Yes†	No	3.40	2.72	1.70
717-0418	80421U‡	H	..	20	1½	Yes	Yes	Yes	7.73	4.64	3.78

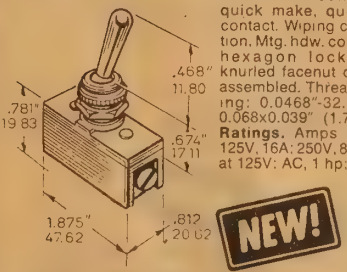
DPDT (2-POSITION — ON-ON) *Momentary

717-0477	81057N*	C	6	3	...	Yes	Yes	No	4.96	3.97	2.48
717-0620	83054	D	3	1	...	Yes	Yes	Yes	3.66	2.93	1.83

DPDT (3-POSITION — ON-OFF-ON)

717-0514	82024HD	F	6	3	..	Yes	Yes	No	5.11	4.09	2.56

VDE APPROVED TOGGLE SWITCH



One hole mounting with quick make, quick break contact. Wiping contact action. Mtg. hdw. consisting of hexagon locknut and knurled facenut comes unassembled. Threaded bushing: 0.0468"-32. Keyway: 0.068x0.039" (1.7x0.9mm). **Ratings.** Amps (AC&DC): 125V, 16A; 250V, 8A VDE. Hp at 125V: AC, 1 hp; DC, 1 hp.

Stock No.	Mfr's Type	Terminal	Price 1-24	Price 25-49	Price 50-99	Price 100-Up
757-3725	7320K55	Screw	3.09	2.39	2.00	1.80

SWITCH AND PANEL SEALS

Military types perform three functions: provide vibration resistance for mtg. nut; seal mounting hole; seal switch lever to 15 psi. Made of gray silicone rubber. Commercial type 80151 is black neoprene, comes in two parts, boot and nut which together form a switch seal. All others come molded as a complete switch seal. Shpg. wt. 1 oz.

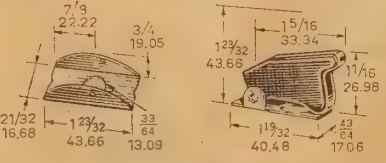


50151 40151 30122

Stock No.	Mfr's Type	Threads	MIL-B-5423	EACH 1-24	EACH 25-99	EACH 100-Up
760-0001	50151	15/32-32	1 A1	1.40	.96	.77
760-0008	5168	15/32-32	2 A3	1.64	.99	.82
760-0051	40151	15/32-325/16	7 B21	1.87	1.14	.94
760-0052	40152	15/32-327/16	7 B22	1.49	.88	.74
760-0022	30122	3/8-32	9 C2	1.68	1.02	.84
760-0152	80151	15/32-32	Comm.	.83	.47	.42

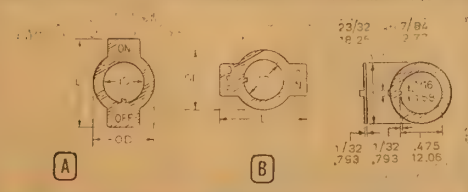
ONE-POLE MOUNTING SWITCH GUARDS

Prevents accidental operation of toggle switches. **8492K1 (MS24417-1):** With pin in place, toggle will operate in left and center, but not extreme right pos. Metal. Black. **8497K1 MS25224-1:** Always in Off pos. when guard is down; can only go to On pos. when guard is up. Phenolic Red. 2 oz.



8492K1 8497K1

Stock No.	Mfr's Type	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-Up
757-7182	8492K1	2.25	1.79	1.53	1.22
757-7187	8497K1	6.00	4.20	3.60	2.88



SWITCH HARDWARE

- **For 15/32" Diameter Bushing Switches**
- **Locking Ring; Keyway Switch Plates**

For 15/32" diameter bushing toggle switches. Types (A) and (B) are keyway switch plates. Material: .032 inch steel. Burnished nickel. (C) is a locking ring of cadmium plated steel. Locking ring with washer. Sold in packages* of 100. Av. Shpg. wt. 8 oz.

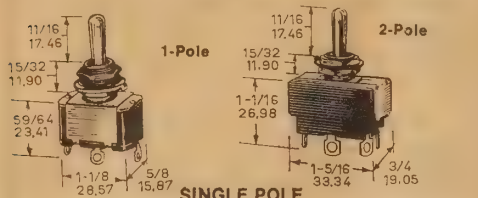
Stock No.	Mfr's Type	Fig.	EACH 1-49	EACH 50-Up
757-2813	30-5632-4	A	.12	.08
757-2816	30-5632-13	B	.12	.08
757-2229	29-761-3	C	*	*

*Per Pkg. 100, 1-4...Each 7.75 5-Up...Each 4.00

Mil-Spec Toggle and Pushbutton Switches

JAN-S-23 HEAVY-DUTY TOGGLE SWITCHES

10A @ 117VAC, 20A @ 28VAC. Solder lug terminals. *Momentary. †Silicon rubber level seal. All are Single Throw except ‡ which indicates Double Throw. §Bushing ¼" high. Wt. 2 oz.



SINGLE POLE

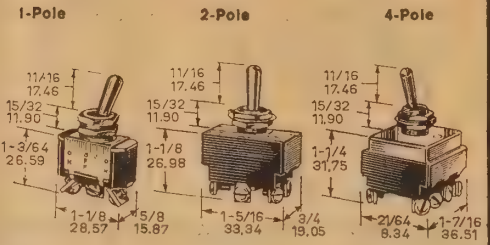
Stock No.	Mfr's Type	JAN No. ST-	Lever	EACH 1-24	25-49	50-99	100-Up
826-0421	42A	42A	On-None-Off	2.25	1.50	1.30	1.11
757-7734	8803K10†	42A	On-None-Off	4.50	3.15	2.70	2.16
826-0424	42D	42D	On-None-On	2.45	1.70	1.48	1.25
826-0425	42E	42E	On-Off-On	2.45	1.70	1.48	1.25
826-0427	42G	42G	On*-Off-On*	2.97	2.09	1.79	1.54
826-0428	42H	42H	On-Off-On*	2.97	2.09	1.79	1.54
826-0121	12A	12A	On-None-Off	2.42	1.31	1.18	1.13
826-0122	12B	12B	On-None-Off*	2.88	1.59	1.44	1.37
826-0123	12C	12C	Off-None-On*	2.93	1.71	1.55	1.44
826-0131	13A§	13A	On-None-Off	2.47	1.37	1.24	1.16
826-0124	12D‡	12D	On-None-On	2.70	1.52	1.39	1.29
826-0134	13D‡	13D	On-None-On	2.76	1.56	1.43	1.36

DOUBLE POLE

Stock No.	Mfr's Type	JAN No. ST-	Lever	EACH 1-24	25-49	50-99	100-Up
826-0521	52K	52K	On-None-Off	3.52	2.20	1.86	1.47
826-0220	22K	22K	On-None-Off	3.11	1.81	1.64	1.53
826-0221	22L	22L	On-None-Off*	3.45	2.07	1.89	1.78
826-0222	22M	22M	Off-None-On*	3.45	2.07	1.89	1.78
826-0230	23K§	23K	On-None-Off	3.16	1.85	1.69	1.59
826-0522	52N‡	52N	On-None-On	3.85	2.48	2.08	1.65
826-0523	52P‡	52P	On-Off-On	3.85	2.48	2.08	1.65
826-0525	52R‡	52R	On-None-On*	4.40	2.86	2.41	1.93
757-7910	8835K3‡	52S	On*-Off-On*	8.75	6.13	5.25	4.20
826-0527	52T‡	52T	On-Off-On*	4.40	2.86	2.41	1.93
826-0223	22N‡	22N	On-None-On	3.34	1.98	1.79	1.68
826-0233	23N‡§	23N	On-None-On	3.39	2.00	1.84	1.72

MIL-S-83731 LEVER-SEAL SWITCHES

Lever Seal Rocker. Tinned screw terminal. *Momentary. All are Single Throw except ‡ which indicates Double Throw. Wt. 2 oz.



SINGLE POLE

Stock No.	Mfr's Type	Gov't MS No.	Lever	EACH 1-24	25-49	50-99	100-Up
826-9822	25098-22	25098-22	On-None-Off	3.36	2.16	2.00	1.85
826-9829	25098-29	25098-29	On-None-Off*	4.13	2.81	2.61	2.35
826-9830	25098-30	25098-30	Off-None-On*	4.13	2.81	2.61	2.35
757R7701	8801K22	35058-22	On-None-Off	4.60	3.22	2.76	2.21
826-9823	25098-23‡	25098-23	On-None-On	3.74	2.45	2.29	2.08
757-7680	8800K16‡	35058-21	On-Off-On	5.10	3.57	3.06	2.45
757-7750	8810K15‡	35058-23	On-None-On	5.10	3.57	3.06	2.45
757-7770	8812K14‡	35058-27	On*-Off-On*	5.65	3.96	3.39	2.71

DOUBLE POLE

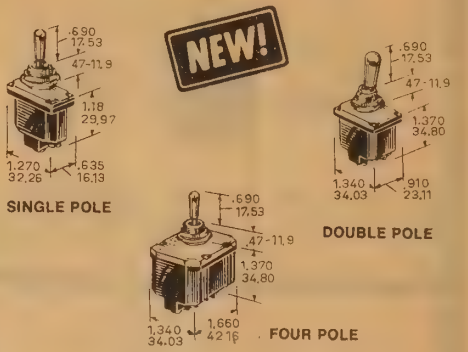
826-1022	25100-22	25100-22	On-None-Off	4.57	3.09	2.88	2.62
826-1029	25100-29	25100-29	On-None-Off*	5.12	3.58	3.37	3.07
826-1030	25100-30	25100-30	Off-None-On*	5.12	3.58	3.37	3.07
826-1023	25100-23‡	25100-23	On-None-On	4.79	3.34	3.12	2.86
757-7845	8820K16‡	35059-21	On-Off-On	7.15	5.01	4.29	3.43
757-7855	8822K20	35059-22	On-None-Off	6.55	4.59	3.93	3.14
757-7869	8824K14‡	35059-23	On-None-On	7.15	5.01	4.29	3.43
757-7904	8834K5‡	35059-27	On*-Off-On*	9.45	6.62	5.67	4.54

FOUR POLE

757-5127	7662K7‡	25068-21	On-Off-On	11.25	10.15	8.70	6.96
757-5134	7664K5‡	25068-23	On-None-On	11.25	10.15	8.70	6.96
826-6827	25068-27‡	25068-27	On*-Off-On*	13.96	12.21	10.97	9.26

MIL-S-3950 TEETER TOTTER ACTION ENVIRONMENTALLY-SEALED TOGGLE SWITCH *

NEW!



MIL-S-3950. Improved teeter totter mechanism provides positive "feel" and reliable return action. Silver contacts. Anodized aluminum bushing and cover; molded melamine/phenolic base. Sealed according to MIL-S-3950 standards. *Momentary. Wt. 2 oz.

SINGLE POLE

Stock No.	Mfr's Type	Gov't MS No.	Lever Travel	EACH 1-9	10-24	25-49	50-Up
757-7191	8500K1	24523-21	On-Off-On	10.90	6.89	6.12	5.36
757-7199	8500K9	24523-22	On-Off	10.90	6.89	6.12	5.36
757-7194	8500K4	24523-23	On-On	10.90	6.89	6.12	5.36
757-7192	8500K2	24523-27	On*-Off-On*	10.90	6.89	6.12	5.36

DOUBLE POLE

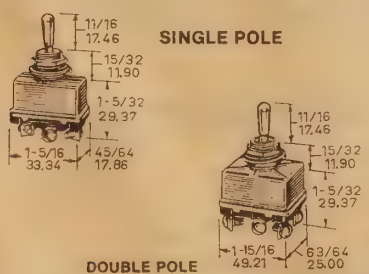
757-7449	8501K9	24524-22	On-None-Off	14.75	9.32	8.28	7.25
757-7442	8501K2	24524-27	On*-Off-On*	14.75	9.32	8.28	7.25
757-7441	8501K1	24524-21	On-Off-On	14.75	9.32	8.28	7.25
757-7444	8501K4	24524-23	On-On	14.75	9.32	8.28	7.25

FOUR POLE

757-7451	8502K1	24525-21	On-Off-On	15.53	14.72	13.08	11.45
757-7459	8502K9	24525-22	On-Off	15.53	14.72	13.08	11.45
757-7454	8502K4	24525-23	On-On	15.53	14.72	13.08	11.45

MIL-S-8834 POSITIVE ACTION ENVIRONMENTALLY-SEALED STANDARD TOGGLE SWITCHES

Toggle linked to movable contact member. Nylon filled molding and brass housing; environmental seal bonded to bushing and lever, seals under contacts and between base and shell. Screw terminals. Rated 25 amps at 28 volts DC, 20 amps at 115 volts AC resistive. Shpg. wt. 2 oz.



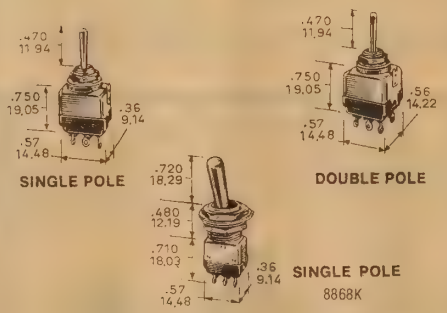
SINGLE POLE

Stock No.	Mfr's Type	Gov't MS No.	Lever	EACH 1-9	10-24	25-49	50-Up
757-7941	8836K1	25306-212	On-Off-On	21.20	19.88	18.55	15.90
757-7949	8836K9	25306-222	On-Off	20.80	19.50	18.20	15.60
757-7944	8836K4	25306-232	On-On	21.20	19.88	18.55	15.90

DOUBLE POLE

757-7951	8837K1	25307-212	On-Off-On	27.20	25.50	23.80	20.40
757-7958	8837K9	25307-222	On-None-Off	27.00	25.31	23.63	20.25
757-7953	8837K4	25307-232	On-On	27.20	25.50	23.80	20.40

MIL-S-8834 POSITIVE ACTION MINIATURE TOGGLE SWITCHES



Toggle assembly linked to movable contact, insuring positive make and break. Detent mechanism. Gold plated self-wiping contacts; 3 A at 115 volts AC, 4 A at 28 volts DC resistive. *Momentary. Weight 2 oz.

SINGLE POLE

Stock No.	Mfr's Type	Gov't MS No.	Lever	EACH 1-9	10-24	25-49	50-Up
757-8071	8866K1	24655-211	On-Off-On	9.56	8.96	8.37	7.17
757-8082	8866K7	24655-221	On-None-Off	9.56	8.96	8.37	7.17
757-8074	8866K4	24655-231	On-On	9.56	8.96	8.37	7.17
757-8072	8866K2	24655-271	On*-Off-On*	10.36	9.71	9.07	7.77

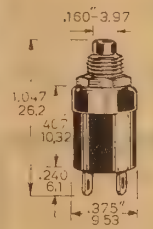
DOUBLE POLE

757-8101	8867K1	24656-211	On-Off-On	11.64	10.91	10.19	8.73
757-8107	8867K7	24656-221	On-Off	11.64	10.91	10.19	8.73
757-8110	8867K4	24656-231	On-On	11.64	10.91	10.19	8.73
757-8102	8867K2	24656-271	On*-Off-On*	12.92	12.11	11.31	9.69

SINGLE POLE (Same as above except full size bushing and lever).

757-8127	8868K7	90310-221	On-Off	10.00	9.38	8.75	7.50
757-8124	8868K4	90310-231	On-On	10.00	9.38	8.75	7.50

NEW!



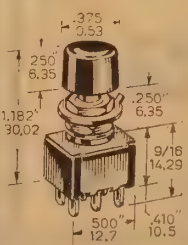
PUSHBUTTON BUTT CONTACT SWITCH

Bushing Mounted

Butt contacts for simple operation. Solder-lug standard terminal. SPST only. MP1F1 is momentary N.O. with red plunger. MP1E1 is momentary N.C. with black plunger, ¼" dia. mtg. hole. Mtg. hdwr. is included. Rated 1 amp at 120VAC.

Stock No.	Mfr's Type	1-25	25-499	500-999	1000-Up
652-0540	MP1F1	1.09	.60	.56	.52
652-0542	MP1E1	1.09	.60	.56	.52

NEW!



BUSHING MOUNTED SNAP ACTION SWITCH

These pushbutton switches have gold-on-brass contacts and epoxy sealed solder-lug terminals. Can be wired for either normally open or closed operation. P1F1 is SPDT; P2F1 is DPDT. Both are momentary. Caps below.

Stock No.	Mfr's Type	EACH 1-24	25-499	500-999	1000-Up
652-0550	P1F1	3.31	1.67	1.50	1.35
652-0552	P2F1	4.62	2.34	2.11	1.90

CAPS FOR ABOVE

Stock No.	Mfr's Type	EACH 1-24	25-Up
652-0588	C8R (red)	.10	.05
652-0589	C8BL (black)	.10	.05

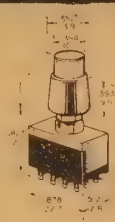
See Page 2 for the Allied Electronics Facility Nearest You

Pushbutton Switches

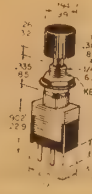
"CRICKET" SUB-MINIATURE PUSHBUTTON SWITCHES



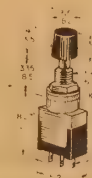
42S Shown With SW2AA10 Bezel



44S Shown With SW2AA37 Bezel



41S



41W

These "Cricket" Sub-Miniature Pushbutton Switches are designed to meet high standards of quality and reliability. *Standard solder lug terminal type has ¼" (6.35mm) diameter bushing with keyway and features snap-in .315" (8.00mm) or .394" (10.00mm) diameter plastic operator caps. Mounting hardware consists of a hexagon facenut, internal tooth lockwasher and locking ring. †Watertight solder lug terminal type fitted with internal neoprene "O" ring seal around plunger to restrict entrance of moisture. Mounting hardware includes hexagon locknut, an internal tooth locking washer and an "O" ring bushing seal. Nominal Rating (Amps): 125VA-c 6,28VD-c 6. Pre-Travel: .105"(2.66mm). Over-Travel: .30"(7.62mm). Mounting hardware is supplied unassembled. See bottom of page for .315" (8.00mm) or .394" (10.00mm) slip-on buttons. Mounting Bezels below.

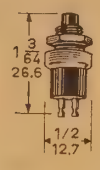
Stock No.	Mfr's Type	Operation	Poles/ Throw	Operating Force	EACH 1-9	10-24	25-49	100-Up
757-0700	SA41SDW1*	Momentary	1PDT	2.5 ± .2 lb.	2.68	1.89	1.71	1.58
757-0710	SA41SEW1*	Push-Push	1PDT	1.6 ± .2 lb.	2.68	1.89	1.71	1.58
757-0730	SA42SDW1*	Momentary	2PDT	3.5 ± .3 lb.	3.73	2.62	2.37	2.19
757-0740	SA42SEW1*	Push-Push	2PDT	2.3 ± .2 lb.	3.73	2.62	2.37	2.19
757-0760	SA44SDW1*	Momentary	4PDT	4.4 ± .4 lb.	6.18	4.36	3.95	3.65
757-0720	SA41WDW1†	Momentary	1PDT	2.5 ± .2 lb.	3.03	2.13	1.93	1.79
757-0725	SA41WEW1†	Push-Push	1PDT	1.6 ± .2 lb.	3.03	2.13	1.93	1.79
757-0750	SA42WDW1†	Momentary	2PDT	3.5 ± .3 lb.	4.05	2.85	2.58	2.39
757-0755	SA42WEW1†	Push-Push	2PDT	2.3 ± .2 lb.	4.05	2.85	2.58	2.39
757-0765	SA44WDW1†	Momentary	4PDT	4.4 ± .4 lb.	6.75	4.77	4.32	3.99
757-0775	SA44WEW1†	Push-Push	4PDT	3.2 ± .2 lb.	6.75	4.77	4.32	3.99

MOUNTING BEZELS

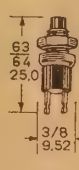
757-0337. Type SW2AA37. For .315 x .394" (8.00x10.00mm) cap.
25-49 ..... Each .41 | 1-24 ..... Each .58 | 50-Up ..... Each .37

757-0329. Type SW2AA10. For .300x.315" (7.62x8.00mm) cap.
25-49 ..... Each .29 | 1-24 ..... Each .41 | 50-Up ..... Each .26

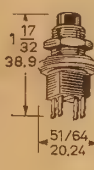
PUSHBUTTON SWITCHES



23-1



30-1



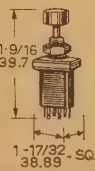
35-1



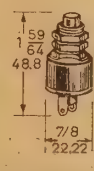
39



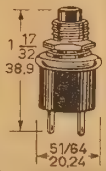
46-101



46-200



2000



4000

Rugged, momentary contact, pushbutton switches with solder-lug type terminals. For on/off applications, computer equipment, printed circuit panels. Normally open types (indicated by N.O. in table) have red buttons. Normally closed types (indicated by N.C. in table) have black buttons. In Series 46, "R" after Mfr's Type No. indicates red button, "B" black button. 2 oz.

Series 23. Miniature, over 100,000 operations. Contact resistance, 25 milliohms. Mounting hole, 21/64".

Stock No.	Mfr's Type	Action	Amps @115 VAC	Size L x Dia.	EACH 1-24	25-49	50-Up
801-0501	23-1	SPST N.O.	¼	1¾x½	2.85	1.90	1.52

Series 30. Subminiature, over 1 million operations. Contact resistance, 25 milliohms. Mounting hole, 17/64".

Stock No.	Mfr's Type	Action	Amps @115 VAC	Size L x Dia.	EACH 1-24	25-49	50-Up
801-0701	30-1	SPST N.O.	1	53/64x3/8	1.88	1.25	1.06
801-0702	30-2	SPST N.C.	1	53/64x3/8	1.88	1.25	1.06

Series 35. Miniature, over 100,000 oper. Mtg. hole, 31/64".

Stock No.	Mfr's Type	Action	Amps @115 VAC	Size L x Dia.	EACH 1-24	25-49	50-Up
801-0735	35-1	DPST N.O.	½	1 17/64x31/64	3.45	2.30	1.96

Series 39. Ultraminiature, over 1 million operations. But. contact. Mounting hole, 1/64".

801-0750	39-1	SPST N.O.	½	3 9/64x¼	2.55	1.70	1.45

Series 46. Miniature, 250,000 oper. †Break-before-make. Mtg. hole, 17/64".

801-1515	46-101R	SPDT†	¼	1 1/32x7/16	2.85	1.90	1.62
801-1510	46-101B	SPDT†	¼	1 1/32x7/16	2.85	1.90	1.62
801-1550	46-200B	DPDT†	¼	1 9/16x1 7/32	6.08	4.05	3.44

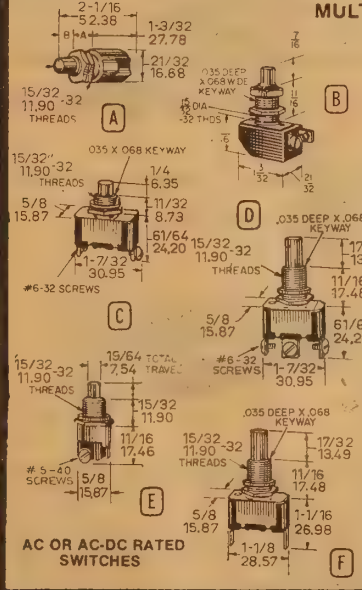
Series 2000. Snap-Action, 25,000 oper. Mtg. hole, 31/64".

801-2201	2201	SPST N.O.	10	1 53/64x3/8	6.60	4.40	3.74
801-2202	2202	SPST N.C.	10	1 53/64x3/8	6.60	4.40	3.74

Series 4000. Silent-Action, 100,000 oper. Mtg. hole, 31/64".

801-2751	4001	SPST N.O.	1	1 17/32x51/64	2.48	1.65	1.40

MULTI-PURPOSE PUSHBUTTON SWITCHES



AC OR AC-DC RATED SWITCHES

AC-DC PUSHBUTTON SWITCHES

AC-DC switches are quick-make, quick-break. Mtg. hdw. supplied unassembled.

SINGLE POLE — MOMENTARY — NORMALLY OPEN

Stock No.	Mfr's Type	Fig.	Rating @ 125V	Rating @ 250V	Button Color	Termi-nals	EACH 1-24	25-49	50-99	100-Up
757R2305	8411K11	A	¾A	¼A	Black	Spade	.91	.70	.59	.53
757-2309	8411K12	A	¾A	¼A	Black	Screw	1.07	.83	.69	.62
757-2311	8411K13	A	¾A	¼A	Red	Spade	.91	.70	.59	.53

SINGLE POLE — MOMENTARY — NORMALLY CLOSED

757-2337	8411K7	A	¾A	¼A	Black	Screw	1.07	.83	.69	.62
757-2340	8411K8	A	¾A	¼A	Black	Screw	.91	.70	.59	.53

PUSH-ON/PUSH-OFF SWITCHES

757-2906	7206K4*	B	6A	3A	Nickel	S. Lug	1.99	1.54	1.29	1.16
757-2907	7207K4*	B	6A	3A	Nickel	W. Leads	2.28	1.76	1.47	1.32
757-2908	7208K4*	B	6A	3A	Nickel	Screw	2.28	1.76	1.47	1.32
757-2920	7220K2†	B	16A	8A	Nickel	Screw	4.96	3.84	3.20	2.88

*Single Pole Single Throw. †Double Pole Single Throw.

AC PUSHBUTTON SWITCHES

AC rated pushbutton switches feature slow-make, slow-break momentary contact mechanism. Bright nickel plated button. 15/32" (11.9mm) dia. bushing. Mtg. hdw. supplied unassembled.

SINGLE POLE — NORMALLY OPEN

Stock No.	Mfr's Type	Fig.	125V	Rating @ 250V	@ 125/250V	Termi-nals	EACH 1-24	25-49	50-99	100-Up
757-2364	8440K2	C	3A	...	.....	S. Lug	2.31	1.79	1.49	1.34
757-2363	8440K3	D	3A	...	.....	Screw	2.48	1.91	1.60	1.44
757-2369	8442K4	E	6A	3A	.....	Screw	1.90	1.47	1.23	1.10
757-2373	8444K4	E	15A	10A	⅓ hp	Screw	2.05	1.59	1.33	1.19

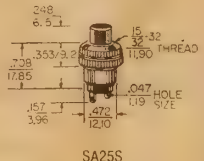
DOUBLE POLE — NORMALLY OPEN

757-2383	8448K2	F	15A	10A	.....	Screw	3.09	2.39	2.00	1.80

LARGE BUSHING PUSHBUTTON SWITCHES



SA21G
SA22G



SA25S

Rated 5 A at 125VAC. 15/32-32 bushing. Solder lugs. *Momentary. †Push-Push. Order .520" (13.20mm) screw-on cap from below.

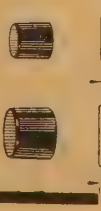
ONE POLE

Stock No.	Mfr's Type	EACH 1-9	10-24	25-99	100-Up
757-0100	SA21GDX1*	3.00	2.86	2.12	1.77
757-0101	SA21GEX1†	3.00	2.86	2.12	1.77
757-0150	SA25SAT1*	1.57	1.49	1.10	1.00
757-0151	SA25SBT1*	1.57	1.49	1.10	1.00
757-0152	SA25SCT1†	1.91	1.82	1.35	1.13

TWO POLE

757-0102	SA22GDX1*	4.05	3.85	2.85	2.39

"CRICKET" SLIP-ON BUTTONS



Color	.300x.315" (7.62x8.00mm) Stock No.	Type SW53	.315x.394" (8.00x10.00mm) Stock No.	Type SW53	EACH 1-24	25-99	100-Up
White	757-1300	AA147	757-1330	AA153	.13	.08	.07
Red	757-1305	AA148	757-1335	AA154	.13	.08	.07
Black	757-1310	AA149	757-1340	AA155	.13	.08	.07
Blue	757-1315	AA150	757-1345	AA156	.13	.08	.07
Yellow	757-1320	AA151	757-1350	AA157	.13	.08	.07
Green	757-1325	AA152	757-1355	AA158	.13	.08	.07



SCREW-ON CAPS

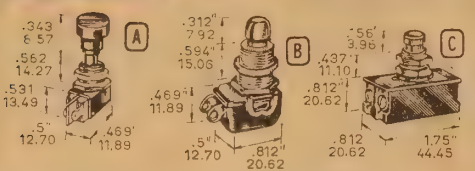
.520" (13.2mm) are screw-on caps for large bushing switches only. Choose from four colors: Red, black, white and green

Color	.520" (13.2mm) Dia. Stock No.	Type SW53-
White	757-1181	AA81
Red	757-1182	AA82
Black	757-1183	AA83
Green	757-1186	AA86

.520" (13.2mm) Dia. Caps ..... Each .17

Pushbutton Switches

MOMENTARY PUSH SWITCHES

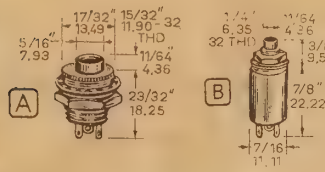


Wide selection of popular momentary push switches for commercial and industrial applications. AC only except Mfr's Type Number 80630 which is AC-DC. ‡ indicates midget size, constructed of molded phenolic; * canopy size, phenolic sections. † Rated: 1A 125 VAC, ¾A 125 VDC. § Rated: 1A 250 VAC, 3A 120 VAC, 1/10 Hp 120 VAC. All types listed have 15/32" diameter shanks. U.L. Recognized. Av. shpg. wt. 3 oz. each.

Button Color	Mfr's Type
Black	3391-GL, 3391-GJ
Red	3391-GLR, 3391-GJR, 80541-ER
Nickel	3392, 80511, 80511-E, 80630

Stock No.	Mfr's Type	Fig.	Action	EACH 1-24	25-99	100-Up
717R0210	*3391-GL	A†	SPST-N.O.	3.80	3.04	1.90
717R0215	*3391-GLR	A†	SPST-N.O.	3.80	3.04	1.90
717-0203	*3391-GJR	A†	SPST-N.C.	3.80	3.04	1.90
717-0206	*3391-GJ	A†	SPST-N.C.	3.80	3.04	1.90
717-0220	*3392	A†	SP2-N.C	3.72	2.98	1.86
717-0420	‡80511	B§	SPST-N.C.	2.25	1.35	1.03
717-0421	‡80511-E	B§	SPST-N.O.	2.25	1.35	1.03
717-0426	‡80541-ER	B§	SPST-N.O.	2.50	1.50	1.38
717-0450	80630	C§	DPST-N.O	6.60	5.28	3.30

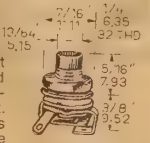
"BUTTON SWITCHES"



SPDT momentary-action switches. Types 903 and 913 (Fig. A) for behind-panel mounting in panels up to 19/64" thick. Types 923 and 933 (Fig. B) mount in front of panels up to 5/32" thick. Rated 250 mA, 30 W max., AC noninductive. Contact Form, 1-C. Provides single "A" (make), single "B" (break) or "C" (break-make) circuit by connecting terminals in various ways. Wt. 3 oz.

Red Button Stock No.	Mfr's Type	Black Button Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
933R6203	903	933-6213	913	1.80	1.20	1.10	1.00
933-6223	923	933-6233	933	1.89	1.26	1.16	1.05

PUSHBUTTON SWITCHES



For use in microphones, radios, auto test instruments. Nickel-plated brass frame and bushing; ¼" threaded shank 13/64" long. Requires 5/16" depth in panels up to 3/32" thick. Low-level currents only. Type 951 has single "make" circuit (1-A); 953 one "break-make" (1-C). Wt. 3 oz.

933-6251	951	.....	....	1.22	.81	.74	.68
933-6253	953	.....	....	1.53	1.02	.94	.85

PUSHBUTTON SWITCHES



High-density switches. 1-pc. pushbutton; shaft. Rated at 1 amp, 100 watts max., AC noninductive load. Button color: red. Mount in 3/8" hole in panels up to 5/32" behind panel. Wt. 3 oz.

Stock No.	Mfr's Type	Action	Contacts	EACH 1-9	10-24	25-49	50-Up
933-1451	H-101	SPST	1-A	1.35	.95	.83	.75
933-1453	H-103	SPDT	1-C	1.58	1.05	.96	.88

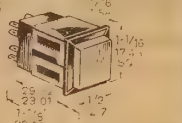
PUSHBUTTON SWITCHES



Flat-frame switches provide simple, direct-acting momentary pushbutton contact. Fine-silver contacts rated 3 amps, 300 Watts max., AC noninductive, 1-pc. black button and shaft. Wt. 3 oz.

933-6303	1003	SPDT	1-C	1.94	1.29	1.18	1.08
933-6304	1004	DPST n.o.	2-A	2.07	1.38	1.27	1.15
933-6306	1006	DPDT	2-C	2.48	1.65	1.51	1.38
933-6309	1009	3PDT	3-C	3.16	2.37	2.17	1.98

BOX SWITCHES



Pushbutton switches with up to 4-poles mount in .615" square hole from front of panel. Rated 250 mA, 30 watts maximum. AC noninductive. Snap-in mounting. Wt. 8 oz.

Stock No.	Type BXR	Cont. Ass'y.	Color	EACH 1-9	10-24	25-49	50-Up
933-0235	-05-6	2-C	White	4.10	2.73	2.50	2.28

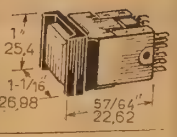
LIGHTED/NON-LIGHTED "UNISWITCH"



Low-cost momentary action pushbutton switches. *Illuminated (solder lug light terminal — takes P-2290 lamp) or †non-illuminated. 11/16" square-mount in single panel cutout from panel front; 13/64 to 115/64" behind panel. Snap-lock installation in panels 3/64-17/64" thick. 250 mA, .30 W max., AC noninductive. SPST-N.O. contacts. White. Lamp is 6V Bi-Pin. Wt. 2 oz.

Stock No.	Mfr's Type	Contacts	EACH 1-9	10-24	25-49	50-Up
933-2301	*LUS-05-01	1A	1.76	1.32	1.21	1.10
933-4150	†US-05-01	1A	1.53	1.02	.94	.85
933-3235	P-2290	Lamp	1.67	1.11	1.02	.93

PUSH-LIGHT SWITCHES



Reliable leaf-spring switching. Rated 2A, 200W max.; AC non-inductive load. Mount with clamp-type bracket; no hardware needed. Flange mtg. requires 1" x .875" panel cutout; 1¾" behind panel. Accepts T-1¾ flange base lamp (not incl.) in 6V, 28V.

MOUNTING BARRIERS (BLACK)

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-49	50-Up
933-3155	PL-102	End Barrier	.14	.09	.083	.075
933-3160	PL-202	Center Barrier	.14	.09	.083	.075

MOMENTARY ACTION—SINGLE LAMP

Stock No.	Mfr's Type	Contacts	EACH 1-9	10-24	25-49	50-Up
933-3173	PL-1062-05	2-C	10.35	6.90	6.33	5.75

PUSH-LOCK/PUSH-RELEASE—SINGLE LAMP

933-3175	PL-1067-05	2-C	10.90	7.26	6.66	6.05

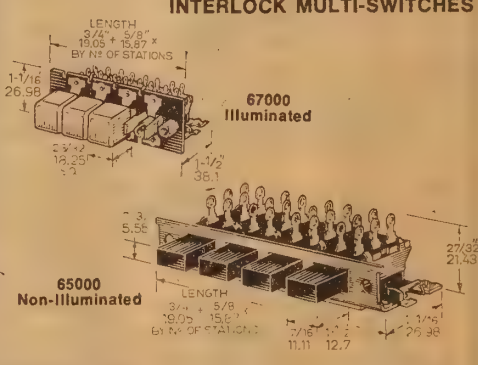
PUSH-LOCK/PUSH-RELEASE—TWIN LAMP

933-3194	PL-2067-05	2-C	12.03	8.01	7.34	6.68

LIGHT DIVIDER

933-3162	PL-551	.....	.09	.06	.06	.05

ECONOMICAL INTERLOCK MULTI-SWITCHES



SERIES 65000. Economical factory assembled multi-switch. Non-illuminated. With DPDT switch module per station. Double wipe bifurcated silver-plated brass contacts are rated 3 amps AC, 0.5 amps DC; 125 volts non-inductive load. Size, 1 1/16" depth behind panel; ¾" length plus 5/8" for each station; 27/32" high. Shpg. wt. 4 oz.

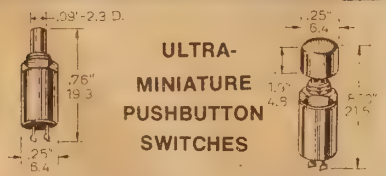
SERIES 67000. Factory assembled, illuminated version of Series 65000. Features front-of-panel lamp replacement for added convenience. Accepts Industrial Type 327 and 328 lamps (not included). See lamp section of this catalog. Av. shpg. wt. 4 oz.

Stock No.	Mfr's Type	Stations	EACH 1-9	10-24	25-49	50-Up
933-9260	65041K-206	4	4.95	3.30	3.03	2.75
933-9271	65061K-206	6	7.10	4.74	4.35	3.95
933-9281	65081K-206	8	9.28	6.18	5.67	5.15
933-9291	65101K-206	10	11.48	7.65	7.01	6.38
933-9324	67041K-506	4	7.93	5.28	4.84	4.40
933-9341	67061K-506	6	11.30	7.53	6.90	6.28
933-9351	67081K-506	8	13.36	10.02	9.19	8.35

14

ULTRA-MINIATURE PUSHBUTTON SWITCHES

NEW!



These small, ¼" by ¾" pushbutton switches have gold plated contacts and have an initial contact resistance of 10 milli-ohms and an electrical life of 50,000 min. operations at rated load. The case of these switches is nickel plated brass. Base is thermosetting plastic which provides a terminal to terminal and terminal to case voltage breakdown rating of 1000V. A-c. The operator button is made of molded nylon. *Resistive rating: 125V. Ac. **See below for .250" slip-on button caps.**

Stock No.	Mfr's Type	*Amps	Circuit	Button Color	EACH 1-9	10-24	25-99	100-Up
757-0040	SA1RV20	0.75	N.O.	Red	1.42	1.35	1.00	.84
757-0041	SA1BW20	0.50	N.C.	Black	1.42	1.35	1.00	.84

SLIP-ON CAPS



.250" caps are slip-on caps for ultra-miniature, pushbutton switches. Two colors: Red and black.

Color	.250" Dia. Stock No.	Type SW53-
Red	757-1101	AA1
Black	757-1102	AA2

.250" Dia. Caps ..... Each .15

COMMERCIAL PUSHBUTTON SWITCHES

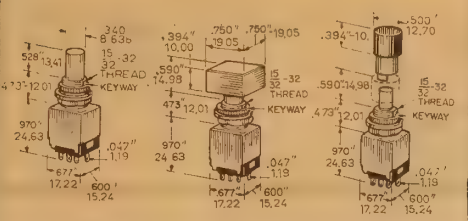


Flush mounted, light duty momentary contact general purpose AC rated pushbutton switches. Slow make, slow break contact mechanism. Terminal screws and mounting hardware are furnished unassembled. Nominal ratings: amperes AC/DC: 125 volts, ¾; 250 volts, ¼. Poles and throw: SPST. Button constructed of black nylon.

Stock No.	Mfr's Type	Contacts	EACH 1-9	10-24	25-49	50-Up
757-7101	8410K1	N.C.	1.29	1.08	1.00	.84
757-7103	8410K3	N.O.	1.29	1.08	1.00	.84

Special-Purpose Switches

ILLUMINATED PUSHBUTTTON SWITCHES



Two pole, double throw contact mechanism and electrically independent lamp circuit, with separate terminals. Bulbs are replaceable from front of panel. Silver plated current carrying parts; solder lug terminals. Rated 5 amps at 125 VAC and 28 VDC. Switch must be sub-panel mounted by 19/32" bushing (mounting hardware included). Av. wt. 2 oz.

BASIC SWITCH

Cap must be ordered separately, below.

Stock No.	Mfr's Type	Circuit	EACH 1-24	25-99	100-499	500-Up
757-8200	SB1DDX69	Momentary	4.70	3.32	2.78	2.24
757-8201	SB1DEX69	Push On-Push Off	4.70	3.32	2.78	2.24

¾" SQUARE OPERATOR CAPS

Stock No.	Mfr's Type	Color	EACH 1-24	25-99	100-499	500-Up
757-8226	SW53AA45	Red	.40	.29	.24	.20
757-8227	SW53AA46	Green	.40	.29	.24	.20
757-8228	SW53AA47	Amber	.40	.29	.24	.20

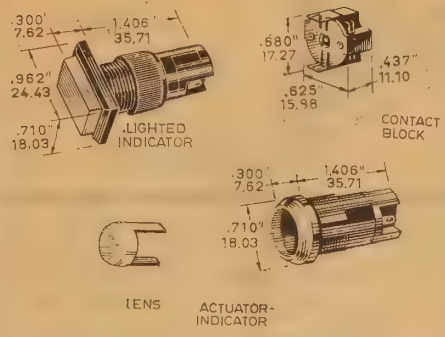
½" ROUND OPERATOR CAPS

Stock No.	Mfr's Type	Color	EACH 1-24	25-99	100-499	500-Up
757-8236	SW53AA49	Red	.40	.29	.24	.20
757-8237	SW53AA50	Green	.40	.29	.24	.20

REPLACEMENT LAMPS

Stock No.	Mfr's Type	Lamp Voltage	EACH 1-24	25-99	100-499	500-Up
757-8300	SW8GH	14	1.15	.81	.68	.55
757-8305	SW8GL	28	1.15	.81	.68	.55

SUBMINIATURE ADAPT-A-SWITCHES



For business machines and computers. Rated: 5A, 125VAC; 2A, 250 VAC, 5A, 28VDC, 10 mA minimum for dry circuit, 50 mV. Use T-1¾ style bulb. Shpg. wt. ¼ oz.

RECTANGULAR ACTUATOR INDICATORS

Stock No.	Mfr's Type	Description of Action	EACH 1-9	10-24	25-99	100-Up
717-1080	83501	Rec. Momentary	3.92	2.12	2.04	1.96
717-1083	83504	Rec. Alternate	6.20	3.35	3.23	3.10
717-1081	83502	Square Momentary	3.92	2.12	2.04	1.96
717-1084	83505	Square Alternate	6.20	3.35	3.23	3.10

LENSES FOR ABOVE INDICATORS

Stock No.	Mfr's Type	Description
717-1050	83500-70	Rect. white
717-1051	83500-71	Rect. red
717-1052	83500-72	Rect. green
717-1054	83500-74	Rect. yellow
717-1055	83500-75	Rect. amber
717-1060	83500-80	Sq. white

1-9 ea. .56 10-24 ea. .30
25-99 ea. .29 100-up ea. .28

Contact Blocks
Stock No. 717R0030
Mfr's Type 83500-30
Desp. Std. Duty
1-9 ea. 4.24
10-24 ea. 2.29
25-up ea. 2.21

Snap-on Clip to Convert Any Actuator to indicator
Stock. No. 717-1039
Mfr's Type 83500-51
1-9 ea. .56
10-24 ea. .30
25-up ea. .29

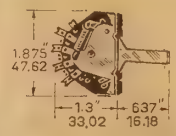
ADAPT-A-SWITCH KIT



31 Components Build 25,344 Lighted Push-button Switches

Everything you need to construct your own pushbutton switches. No special tools are necessary. Actuators are either momentary or alternate action to meet circuit requirements. You can build up to 4-pole momentary and 3-pole alternate action switches. Includes: 9 lenses (3 round, 3 square, 3 rectangular); two momentary actuator indicators; one alternate actuator; six contact blocks; one adapter. Durable case, 6¾x1¼x3⅝", Wt. 5 oz.
717-1025 ..... **Each 29.51**

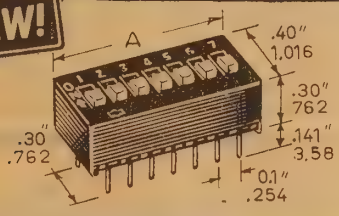
LEVER-ACTION PHENOLIC SWITCHES



Nylon rotor, silver-plated brass clips, contacts. 30° indexing. Breakdown: 1000VAC rms. Contacts rated 1.5A @ 28VDC; 230 mA @ 115VAC rms. Contact resis.: .0035 ohm. Supplied without knob. Min. life, 25,000 cycles. 2 6-32 tapped holes on 1⅜" ctrs. Phenolic insul. *positive; †spring return; ‡pos., spring return. No. of Positions: 3. 4 oz.

Stock No.	Mfr's Type	Total Poles	Shorting	EACH 1-9	10-24	25-49	50-Up
747-1452	1452	2*	Yes	3.63	2.42	2.23	2.08
747-1454	1454	2*	No	3.63	2.42	2.23	2.08
747-1455	1455	2†	No	3.63	2.42	2.23	2.08
747-1467	1467	2‡	No	3.63	2.42	2.23	2.08

NEW!

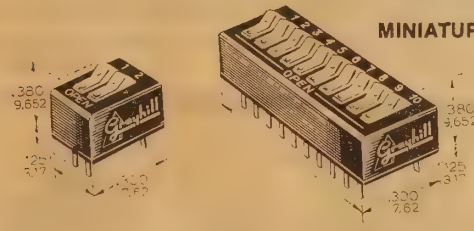


MINIATURE SLIDE DIP SWITCHES

Electrical ratings are 100 mA max. at 50VDC (carry): 100 mA max. at 5VDC or 25 mA max. at 25VDC (switch). Electrical and mechanical life: 10,000 operations min. Contact resistance: .10 ohms max. Insulation resistance: 1,000 megohms between adjacent terminals. Circuitry: multiple stations, single pole, single throw. Contacts and terminals are gold-plated heat treated Beryllium copper.

Stock No.	Mfr's Type	No. of Stations	Dim. "A" In.	mm	EACH 1-9	10-24	25-49	50-Up
757-0192	SE2AV591-2	2	.280	7.11	2.05	1.89	1.72	1.54
757-0193	SE2AV591-3	3	.380	9.65	2.20	2.02	1.85	1.65
757-0194	SE2AV591-4	4	.480	12.1	2.35	2.16	1.97	1.76
757-0195	SE2AV591-5	5	.580	14.7	2.50	2.30	2.10	1.88
757-0196	SE2AV591-6	6	.680	17.2	2.65	2.44	2.23	1.99
757-0197	SE2AV591-7	7	.780	19.8	2.75	2.53	2.31	2.06
757-0198	SE2AV591-8	8	.880	22.3	2.90	2.67	2.44	2.18
757-0199	SE2AV591-9	9	.980	24.8	3.05	2.81	2.56	2.29
757-0200	SE2AV591-10	10	1.080	27.4	3.15	2.90	2.65	2.36

MINIATURE ROCKER DIP SWITCHES



Dual in-line single pole/single throw package switch for easy PC board mounting. Spring loaded sliding ball contact system for positive contact, tease-proof reliability, wiping contact, high shock and vibration resistance. Life: 50,000 operations. Compact, low .305" above board height.

W/STANDOFFS Stock No.	Mfr's Type	No. of Rockers	Lgth.	EACH 1-9	10-24	25-49	50-Up
801-7605	76B02	2	0.280	4.58	2.81	2.56	2.41
801-7615	76B03	3	0.380	4.65	2.85	2.60	2.45
801-7625	76B04	4	0.480	4.73	2.90	2.65	2.49
801-7635	76B05	5	0.580	4.80	2.94	2.69	2.53
801-7645	76B06	6	0.680	4.95	3.04	2.77	2.61
801-7655	76B07	7	0.780	5.03	3.08	2.81	2.65
801-7665	76B08	8	0.880	5.18	3.17	2.90	2.73
801-7675	76B09	9	0.980	5.33	3.27	2.98	2.80
801-7685	76B10	10	1.080	5.40	3.31	3.02	2.84

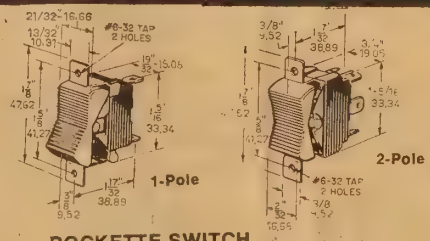
ONE POLE

Stock No.	Mfr's Type	Circuit	Amps @ 125V	250V	Terminals	EACH 1-24	25-49	50-99	100-Up
757-6178	8144K21A1M52	On-Off	15	10	Spade	1.23	.95	.80	.72
757-6175	8144K20A1M52	On-Off-On	15	10	Spade	1.40	1.07	.90	.81
757-6177	8144K20X1M52‡	On-Off-On	15	10	Spade	1.78	1.37	1.15	1.03
757-6171	8144K21X1M52	On-Off	15	10	¼" Spade	1.70	1.31	1.10	.99
757-6172	8144K22X1M52	On-On	15	10	¼" Spade	1.86	1.44	1.20	1.08

TWO POLE

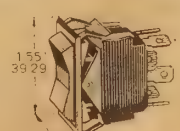
757-6154	8142K21E6M52	On-Off	15	10	Spade	2.23	1.73	1.44	1.30
757-6152	8142K20C5M52	On-Off-On	15	10	Spade	2.54	1.97	1.64	1.48
757-6155	8142K22E6M52	On-On	15	10	Spade	2.54	1.97	1.64	1.48
757-6160	8142K20X6M52‡	On-Off-On	15	10	Spade	2.93	2.27	1.89	1.70
757-6161	8142K21X6M52	On-Off	15	10	¼" Spade	2.75	2.13	1.78	1.60
757-6162	8142K22X6M52	On-On	15	10	¼" Spade	3.08	2.38	1.99	1.79

‡Snap-in model



ROCKETTE SWITCH

The contact mechanism is Slow-make and Slow-break with red serrated rocker. Quick-connect spade terminals are .250" wide. The mounting frame is made of heavy gauge steel to provide structural strength and is plated for resistance to corrosion. U.L./C.S.A. listed. Wt. 2 oz.



SNAP-IN MODEL ‡

Bezels are fabricated of hardened spring-steel for durability and structural strength. Corrosion-resistant, bright nickel-plated finish. Available in one and two-pole non-illuminated single rocker switches. Mounts in .83×1.45" cut out.

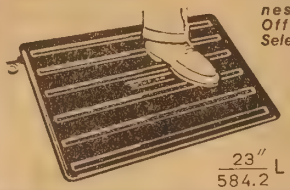
See Page 2 for the Allied Electronics Facility Nearest You

Foot and Slide Switches

NEW!

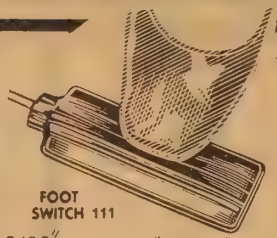
MAT SWITCH

Let Allied Provide The Switches Needed For Business, School, Or Office From The Selection At Left



CVP 1723

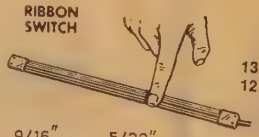
23″ 584.2 L x 17″ 431.8 W x 3/32″ 2.38 T



FOOT SWITCH 111

5″ 127. L x 2″ 50.8 W x 1/4″ 6.35 T

RIBBON SWITCH



131-A
121BP

9/16″ 14.29 W x 5/32″ 3.98 T

FLEXSWITCH



9/16″ 14.28 W x 8″ 203.2 L

Type CVP 1723 Flexible Area Switching Mat. Elements spaced on 2-3.4" (5.08-8.63cm) centers. Water-resistant vinyl. "Mylar" insulation. Overlay with Masonite, carpeting or use exposed. Actuated by 5 lbs. (2.27kg) pressure. 17x23x3/32" (43.18x58.42x.238cm) thick. For 24V circuit. Wt. 1¾ lbs. (.794kg).
966R1010. .... Ea. 22.36 4-9 ... Ea. 15.18 10-Up ... Ea. 14.33

Type 131-A Controlflex Wired Ribbon Switches. Rugged 40 oz. (1.14kg) sensitivity. Bends without shorting. Normally open, momentary contact. 1 amp at 117VAC/28VDC. Ready to use. Sleeve terminals, 18" (46cm) lead. ¾" (1.9cm) wide, 3/16" (.47cm) thick. Gray.

Stock No.	Length Ft.	Length M	Weight Oz.	Weight Gm	EACH 1-3	EACH 4-9	EACH 10-Up
966-1080	1	.3	3	85	6.75	3.95	3.76
966-1081	2	.6	4	113	9.35	5.43	5.16
966-1082	5	1.5	7	198	14.71	9.93	9.43

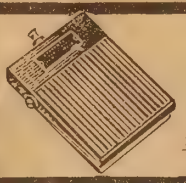
Type 111 100-Watt Foot Switch. Rugged controflex ribbon switch (momentary, normally open) is sealed in weather-proof molded flat pad. 2x5x½" (5x12.7x1.27cm) thick; can be taped or cemented to floor. Comes complete with 6 ft. (1.8m) UL approved cord. Wt. 8 oz. (2.28g).
966-1060. ..... Ea. 8.90 4-9 .... Ea. 6.17 10-Up .... Ea. 5.33

Type 121BP Sensitive Ribbon Switch. Similar to 131-A, but 8 oz. (228g) pressure closes circuit. 1 amp at 117VAC/24VDC. Sealed units have 18" (46cm) leads. 3/16" (1.43cm) wide, 5/32" (.39cm) thick. Green.

Stock No.	Length Ft.	Length M	Weight Oz.	Weight Gm	EACH 1-3	EACH 4-9	EACH 10-Up
966-1070	1	.3	3	85	6.75	3.45	3.76
966-1071	2	.6	4	113	9.35	5.43	5.16

TYPE 180-S FLEX SWITCH

This sealed ribbon switch makes contact when flexed or squeezed. Can be used for detection, safety, signals, counting or monitoring; the applications are almost endless. Rated for millions of cycles of trouble-free sensing. Installation is simple, takes only minutes. Sensitivity is 8 oz. (228g) at 2" (50.8mm) bending moment, or 8 oz. (228gm) finger squeeze. 9/16" (14.3mm) wide, 8" (203mm) long. Rated @ 1 amp res. 117VAC, 2 amp @ 28VDC.
966-1083. 1-3 ..... Each 7.35
4-9 ..... Each 4.62 10-Up ..... Each 4.39



T51-S

3-1/2″ 88.9 L x 2-5/8″ 66.67 W x 1″ 25.4 T



491

2-7/8″ 73.02 L x 2-1/2″ 63.5 W x 1-1/8″ 28.57 T

Allied Foot Switches Leave Your Hands Free For Work. Select The Type You Need To Meet Your Requirements



632

4-1/2″ 114.3 L x 3-1/2″ 88.9 W x 1-1/2″ 38.1 T

.5″ 127. L x 2-1/2″ 63.5 W x 1-1/8″ 28.57 T

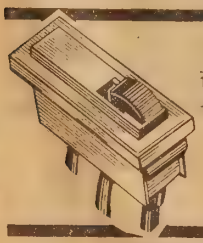


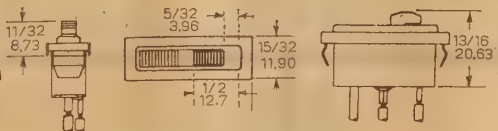
L-2-S

Model T-51-S "Treadite". 7 amp, 125-250VAC. **T-51-SC.** Wired. 6 ft. (1.8m) cord, 2-prong series plug. SPST-NO. 7 A, 125VAC. Rubber skidproof pad.
T-51-SC3. Same as T-51-SC. 6 ft. (1.8m) cord, 3-prong series plug.
Model 491-S "Compact". SPDT 10 amps, 125-250VAC contacts. Rugged steel housing. Smooth black finish. Rubber skidproof base.
Model 491-SC. Similar to 491-S. 6 ft. (1.8m) cord, 2-prong series plug. SPST-NO. 10 amps, 125VAC.
491-SC3. 8 ft. (2.4m) cord and 3-prong series plug. SPST-NO grounded. 10 amps, 125VAC.
Model 632-S "Clipper". SPDT con. 20 amp. 125-250VAC. Cast iron housing, rubber anti-skid pad.
Model 632-D. Same as Model 632-S but maintains contact until again actuated.
Model L-2-S "Lektro-Lok". Rated 15 A, 125-250VAC contacts on each side mechanical interlock, steel housing.

ALLIED FOOT SWITCHES FREE HANDS FOR WORK

Stock No.	Mfr's Type	Description	Size, Inch	Size Millimeters	Wt. Lbs.	EACH 1-9	EACH 10-19	EACH 20-Up
842R6658	T51-S	Momentary cont.	3½x2⅝x1	90Lx67Wx25T	½	6.35	3.47	3.08
842-6659	T51-SC	Above, 6' cord	3½x2⅝x1	90Lx67Wx25T	1	9.73	5.31	4.72
842-6660	T51-SC3	Above, 6' cord	3½x2⅝x1	90Lx67Wx25T	1½	12.55	6.84	6.08
842-6680	491-S	Momentary cont.	2⅞x2½x1⅛	72Lx64Wx32T	½	7.85	4.28	3.80
842-6681	491-SC	Above, 6' cord	2⅞x2½x1⅛	72Lx64Wx32T	1¼	12.38	6.75	6.00
842-6682	491-SC3	Above, 8' cord	2⅞x2½x1⅛	72Lx64Wx32T	1½	15.03	8.19	7.28
842R6690	632-S	Momentary cont.	4½x3½x1½	115Lx88Wx47T	2	11.55	9.45	8.40
842R6691	632-D	Maintains cont.	4½x3½x1½	115Lx88Wx47T	2½	15.52	12.69	11.28
842-6634	L-2-S	Two-way	5x2½x1⅛	125Lx64Wx32T	1	12.63	6.89	6.12

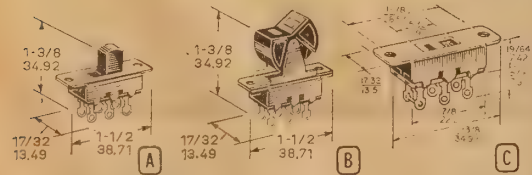




RED "SLIDELITE" NEON PILOT INDICATOR/SLIDE SWITCH

SPST switch is rated at 6 amps AC or 1 amp DC at 125 volts. Neon lamp with 1/3W series resistor for 125VAC. Ideal for a wide variety of commercial and industrial applications. Serves as an excellent replacement unit for many appliances. Black, white and red leads 6" (152.4mm) long. White nylon housing, 1 25/64" (35.32mm) long x 15/32" (11.90mm) wide x 21/32" (16.66mm) deep. Chrome bezel designed for snap-in panel mounting. Slide knob projects .140"; has less than 3/16" travel. UL listed, CSA approved.
844R7501. Type 51-2131. **1-5 ..... Each 2.25 6-9 ..... Each 1.87**
10-24 ..... Each 1.50 25-Up ..... Each 1.04

PHASE 11 SLIDE SWITCHES

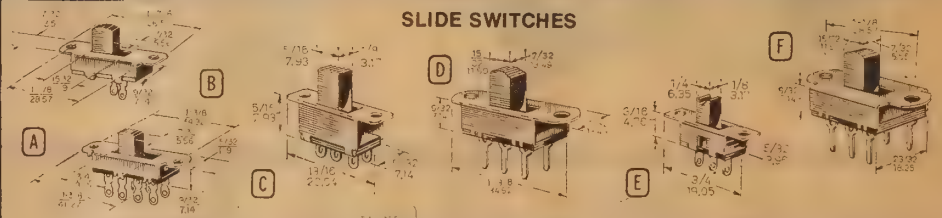


Wide variety of On-Off and function indication uses. Double-wipe action prevents oxidation, ensures good electrical contact. Positive-action detent tab holds slide at position. Terminals: Silver-plated brass alloy. 1⅜" long, 17/32" wide, 1½" mounting centers. Rated 0.5 amp DC; 3 amps AC, 125 volts noninductive load. Wt. 4 oz.

TWO-POSITION SLIDE SWITCHES

Stock No.	Mfr's Type	Fig.	Action	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
933-9107	46204LR	A	DPST Locking	.77	.51	.47	.43
933-9120	46256LFR	C	DPDT Locking	.92	.69	.63	.58
THREE-POSITION SLIDE SWITCHES (Center Locking)							
933-9134	46313LDR	A	DPTT Lock/Lock	1.04	.66	.61	.55
TWO-POSITION ROCKER SWITCHES							
933-9187	51206LR	B	DPDT Locking	1.40	.93	.85	.78

SLIDE SWITCHES



These slide switches are versatile and economical. SPST switch is for general usage. SPDT switches are useful where space is critical. DPDT switches insure long service. The DPTT switch can also be used as a DPDT center-off switch. 3PDT switch is rugged and compact. Initial contact resistance: .005 ohm max. Insulation resistance: 100 Meg ohms. 1200V rms. voltage withstand. Contact material: bronze-silver plate. Terminal material: copper-silver plate. Terminal types: † Solder, * Comb. solder/PC.

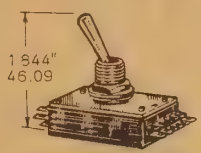
Stock No.	Mfr's Type	Fig.	Switch Characteristics	Current Rating	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
796-3510	35-210-BU*	A	SPST/On-Off	4A-125VAC, ½A-125VDC	.55	.49	.43	.34
796-3520	35-202-BU†	E	SPDT/On-Off Mini.	½A-50V	.55	.49	.43	.34
796-3522	35-212-BU*	B	SPDT/On-On	4A-125VAC, ½A-125VDC	.55	.49	.43	.34
796-3526	35-216-BU*	B	SPDT/2 Pos./Mom.	4A-125VAC, ½A-125VDC	.75	.56	.49	.43
796-3534	35-204-BU†	C	DPDT/2 Pos./On-On or On-Off Mini.	½A-50V	.55	.49	.43	.34
796-3535	35-222-BU*	D	DPDT/2 Pos./On-On or On-Off	4A-125VAC, ½A-125VDC	.73	.56	.49	.39
796-3544	35-224-BU*	F	DPDT/2 Pos./Mom.	4A-125VAC, ½A-125VDC	1.30	1.13	.98	.76
796-3550	35-240-BU*	B	DPTT/On-Off-On	4A-125VAC, ½A-125VDC	.90	.85	.75	.59
796-3556	35-246-BU*	F	3PDT/2 Pos./On-On or On-Off	4A-125VAC, ½A-125VDC	1.55	1.44	1.25	.99

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

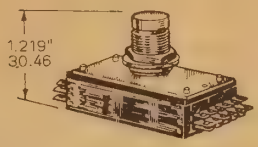
Special Application Switches

MULTI-POLE SWITCHES FOR SPECIAL APPLICATIONS

- **Reliable High-Density Switches Designed To Permit More Switches In Less Space**



Type 802-902



Type 803

Switches for critical low level and general purpose switching applications. **Series 802** is a general purpose double-throw bat-handle toggle switch with gold plated contacts. Contact Rating: 5 amps max. resistive to 150 W. Life expectancy: 50,000 cycles at 20 CPM. High contact pressure and positive wiping action. Used in control type applications. **Series 902** is a low level double-throw bat-handle toggle switch with bifurcated gold plated contacts with the added feature of two-degrees of wiping action. Contact Rating: 1 amp max. resistive to 50 W. Life expectancy: 50,000 cycles. Typically used in computer I/O signals; voice and data-grade communications. **Series 803** is a general purpose momentary pushbutton switch with gold plated contacts. Contact Rating: 3 amps at 28VDC resistive. For 802, 803 and 902 switches: Temp. range: −55°C to +85°C. Dielectric Strength: 1000 VRMS at 60 cycles per second. Wt. 6 oz.

See page 176 for connectors and tools for these switches.

SERIES 802 BAT-HANDLE TOGGLE SWITCHES

Stock No.	Mfr's Type	Action	EACH 1-9	10-24	25-49	50-Up
774-0130	802-8C	8PDT	19.62	17.28	16.45	15.60
774-0134	802-12C	12PDT	21.66	19.08	18.15	17.25
774-0138	802-24C	24PDT	42.39	37.32	35.40	33.60
774-0142	802-36C	36PDT	59.14	52.08	49.44	46.92

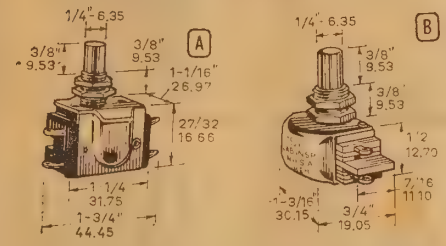
SERIES 902 BAT-HANDLE TOGGLE SWITCHES

Stock No.	Mfr's Type	Action	EACH 1-9	10-24	25-49	50-Up
774-0500	902-8C	8PDT	20.21	17.28	16.44	15.48
774-0501	902-12C	12PDT	21.66	19.08	18.12	17.16
774-0502	902-24C	24PDT	43.62	37.32	35.40	33.60
774-0503	902-36C	36PDT	60.89	52.08	49.44	46.92

SERIES 803 MOMENTARY PUSHBUTTON SWITCHES

Stock No.	Mfr's Type	Action	EACH 1-9	10-24	25-49	50-Up
774-0150	803-4C	4PDT	10.50	9.00	8.52	8.04
774-0152	803-8C	8PDT	13.63	12.00	11.40	10.80

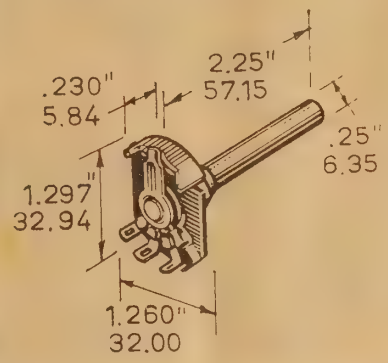
SPST AND DPDT POWER SWITCHES



Ideal for control panels, these roto-power switches operate at −23° to 65°C. Dielectric strength exceeds 1000V RMS. **Type 1561B.** Rated at 3 amps, 250V; 1 amp, 250V AC/DC. Has roller action contacts and laminated base construction. Exposed parts are finished in bright nickel. **Type 81727.** Rated at 6 amps, 125V; 3 amps, 250V AC/DC. Wiping blade contact mechanism. Molded phenolic base. Finished in nickel. Average mechanical and electrical life: 50,000 operations. Shanks 11/32" diameter, 3/8" long. Switches supplied with two hex nuts; solder lug terminals. Wt. 2 oz.

Stock No.	Mfr's Type	Fig.	Action	EACH 1-24	25-99	100-Up
717-0115	1561B	B	SPST	3.63	2.90	1.68
717-0484	81727	A	DPDT	6.53	5.22	3.27

GENERAL PURPOSE SWITCHES



Small, step-type switches rated 1.5 amps at 28VDC; 230 MA at 115VAC. Shaft, ¼" (6.35mm) diameter x 2¼" (57.15mm) long FMS. Non-shorting contacts, except *shorting. Mfr's Type 1472 is for use in FM-AM phonos. Widely used in communications equipment. Wt. 5 oz. (141.7gm).

Stock No.	Mfr's Type	Description	EACH 1-9	10-24	25-49	50-Up
747-1461	1461*	SP-3-pos. sel.	2.18	1.45	1.33	1.25
747-1472	1472	DP-3-pos.	2.65	1.77	1.63	1.52

PUSHBUTTON SWITCHES


921-K

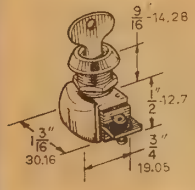

E903

"CORDETTE" TYPE 921-K. Remote control switch. SPST switch circuit with 500-mA contacts; 50 watts max., AC non-inductive load. 6-ft. gray 2-cond. unshielded cable. Size: 1 3/16" wide, 2 15/16" long. Shpg. wt. 4 oz.

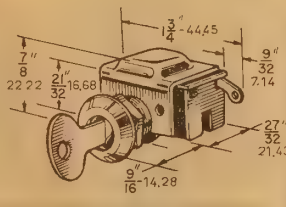
TYPE E903 PUSHBUTTON SWITCH. Remote control switch. Hole at one end for 2-cond. line. Rated 250 mA non-inductive; 30 watts max. Contacts: 1-C. Red color. Wt. 4 oz.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-99	100-Up
933-6221	921-K	6.35	4.23	3.88	3.53	2.82
933R0823	E903	2.98	1.98	1.82	1.65	1.32

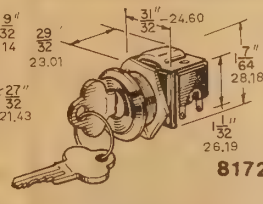
ROTARY SWITCHES/LOCKING



Canopy



715L

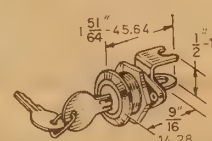


81727

Security Type (S level) switches provide limited protection from unauthorized operation. High Security (HS level) is equipped with commercial lock assemblies for extra protection. Canopy series switches are AC/DC general purpose. The 715L series switches are AC/DC classic. All have solder terminals. Switch action is represented by †off-on and ‡on-on. Key removal positions are either #counterclock and off or §off.

Stock No.	Mfr's Type	Series	Security Level	Circuit	Amps @ 125V	250V	Slotted Sleeve Length In.	Sleeve Dia. In.	EACH 1-24	25-99	100-Up
717-0486	1561LE†#	Canopy	S	SPST	3	1	9/16	15/32	6.96	5.57	3.48
717-0488	1565L‡#		S	SPDT	3	1	9/16	15/32	7.12	5.70	3.56
717-0490	1575L‡#		S	DPDT	3	1	9/16	15/32	8.84	7.07	4.42
717-0479	81715L†§	715L	S	SPST	6	3	9/16	15/32	5.20	4.16	2.60
717-0480	Extra key for above	.....	..	.....	..	..	....	....	.47	.38	.24
717-0481	81715LE†#		S	SPST	6	3	9/16	15/32	5.20	4.16	2.60
717-0482	Extra Key for above	.....	..	.....	..	..	....	....	.47	.38	.24
717-0492	81715LQ41†#		HS	SPST	6	3	45/64	7/8	22.57	18.06	11.29
717-0496	81724LC†#		S	DPST	6	3	9/16	15/32	6.90	5.52	3.45
717-0498	81724LQ41†#		HS	DPST	6	3	45/64	7/8	24.80	19.84	12.40
717-0500	81727LQ41‡#		HS	DPDT	6	3	45/64	7/8	25.83	20.66	12.91

LOCKING BRACKETS FOR TOGGLE SWITCHES

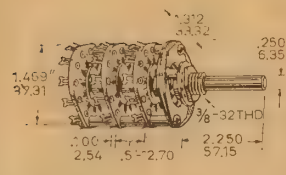


Lock brackets provide a flexible way to convert toggle switches to rotary locking switches. All have alike keying. Hardware includes dress nut, hex nut and 2 keys. Unassembled.

Stock No.	Mfr's Type	Description	EACH 1-24	25-Up
717-7400	8947-400	Key removable in counterclock position	13.75	11.00
717-7401	8947-401	Key removable in center position	13.75	11.00
717-7405	8947-405	Key removable in either extreme position	13.75	11.00
717-7406	8947-406	Key removable in counterclock position using AC momentary single Throw Switch	13.75	11.00

Rotary Switches

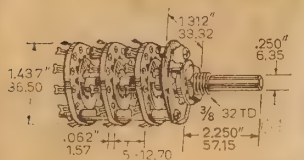
PA-2000 SERIES MINIATURE CERAMIC SWITCHES



Feature maximum voltage flash-over points, high-Q, low-loss ceramic bodies; minimum intercircuit capacity; insulated front-back clips. Positive 30° indexing; adjustable stop or continuous rotation. All rated 1.5 A @ 28 VDC, 230 mA @ 115 VAC. Hardware incl. Wt. 3 oz./section.

Non-Shorting Stock No.	Non-Shorting Type PA-	Shorting Stock No.	Shorting Type PA-	Total Poles	No. Pos.	Sections	EACH 1-9	10-24	25-49	50-Up
747R2001	2001	747-2000	2000	1	2-12	1	5.15	3.44	3.16	2.96
747R2003	2003	747-2002	2002	2	2-6	1	5.50	3.66	3.37	3.15
747R2005	2005	747-2004	2004	2	2-12	2	8.30	5.55	5.11	4.77
747-2007	2007	747-2006	2006	3	2-5	1	5.85	3.90	3.59	3.35
747-2009	2009	747-2008	2008	3	2-12	3	10.85	7.21	6.63	6.20
747R2011	2011	747-2010	2010	4	2-6	2	8.73	5.81	5.35	5.00
747-2013	2013	.....	....	4	2-12	4	13.63	9.09	8.36	7.82
747-2015	2015	.....	....	5	2-3	1	6.10	4.07	3.74	3.50
747-2019	2019	.....	....	6	2	1	5.95	3.96	3.64	3.41
747-2021	2021	.....	....	6	2-5	2	9.23	6.15	5.66	5.29
747-2023	2023	.....	....	6	2-6	3	11.70	7.80	7.18	6.71
747-2025	2025	.....	....	6	2-12	6	14.11	12.83	11.80	11.03
747-2027	2027	.....	....	8	2-6	4	11.88	10.80	9.94	9.29
747-2029	2029	.....	....	9	2-5	3	12.80	8.52	7.84	7.33
747-2031	2031	.....	....	10	2-3	2	9.68	6.45	5.93	5.55
747-2035	2035	.....	....	12	2	2	10.05	6.70	6.16	5.76
747-2037	2037	.....	....	12	2-6	6	16.85	15.32	14.09	13.18
747-2041	2041	.....	....	18	2	3	11.86	10.78	9.92	9.27

PA-1000 MINIATURE PHENOLIC SWITCHES



30° indexing; adjustable stop. 1.5 A @ 28 VDC; 230 mA @ 115 VAC. Index assemblies and hardware identical to PA-2000 Series. Phenolic insulated. Hardware incl. Shpg. wt. 3 oz.

Non-Shorting Stock No.	Non-Shorting Type PA-	Total Poles	No. Pos.	Sections	EACH 1-9	10-24	25-49	50-Up
747-1001	1001	1	2-11	1	4.08	2.72	2.50	2.34
747-1003	1003	2	2-5	1	4.18	2.79	2.57	2.40
747-1005	1005	2	2-11	2	5.85	3.91	3.60	3.36
747-1007	1007	3	2-3	1	4.30	2.88	2.65	2.48
747-1009	1009	3	2-11	3	7.63	5.10	4.69	4.39
747-1013	1013	4	2-5	2	5.90	3.94	3.62	3.39
747-1015	1015	4	2-11	4	9.35	6.25	5.75	5.38
747-1017	1017	5	2-11	5	11.10	7.40	6.81	6.36
747-1019	1019	6	2-3	2	5.95	3.98	3.66	3.42
747-1021	1021	6	2-5	3	7.68	5.14	4.73	4.42

PSA SERIES SUBMINIATURE ROTARY SWITCHES



Positive 30° indexing, adjustable stops. Dual ball side thrust indexing. Sections .203" thick, spaced .031". Rated 0.55 A @ 28VDC; make and break, 170 mA @ 115VAC. Capacity: 7 amps.

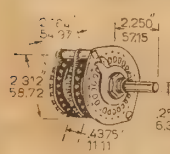
Non-Shorting Stock No.	Non-Shorting Type	Total Poles	No. Pos.	No. Sec.	EACH 1-9	10-24	25-49	50-Up
747-0201	PSA-201	1	2-12	1	8.50	5.61	5.22	4.86
747-0203	PSA-203	2	2-6	1	9.13	6.09	5.63	5.23
747-0207	PSA-207	3	2-5	1	10.13	6.75	6.23	5.78
747-0211	PSA-211	4	2-6	2	12.98	8.65	7.98	7.43
747-0221	PSA-221	6	2-5	2	14.65	9.79	9.04	8.39

PA-2000 CERAMIC SECTIONS

Excellent quality ceramic sections for use in assembly of special switches for commercial and industrial applications. Designed for use with index assemblies PA-300, PA-301 and PA-302 at right. Shpg. wt. 2 oz.

Shorting Stock No.	Shorting Mfr's Type	Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	EACH 1-9	10-24	25-49	50-Up
747-0100	PA-0	747-0101	PA-1	1	2-12	3.03	2.02	1.86	1.74
.....	....	747-0103	PA-3	2	2-6	3.48	2.32	2.13	2.00
.....	....	747-0105	PA-5	3	2-5	3.83	2.56	2.36	2.20

PA-3000 AND PA-4000 SERIES SWITCHES

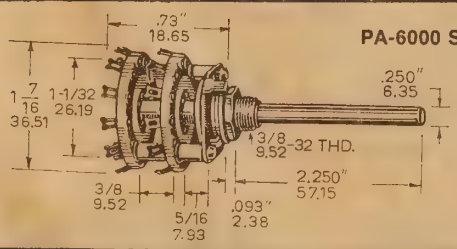


18- and 24-position switches using hill-and-dale index mechanism. Breakdown, 1000 VAC rms. Sections are 2⁵⁄₁₆" high, 1⁄₁₆" thick. PA-3000 Series: 2.25 A @ 28 VDC, 0.350 A @ 115 VAC; 20° indexing; 2¹¹⁄₆₄" wide. PA-4000: 1.5 A @ 28 VDC, 0.230 A @ 115 VAC; 15° indexing; 1³¹⁄₃₂" wide. Wt. 4 oz.

NON-SHORTING TYPES

Stock No.	Type PA-	Sections	Total Poles	No. Pos.	EACH 1-9	10-24	25-49	50-Up
747-3001	3001	1	1	2-17	7.18	4.80	4.42	4.13
747-3003	3003	2	2	2-17	11.70	7.80	7.18	6.71
747-3007	3007	4	4	2-17	15.07	13.70	12.60	11.78
747-4001	4001	1	1	2-23	6.81	4.55	4.19	3.91
747-4003	4003	2	2	2-23	10.85	7.24	6.66	6.23
747-4005	4005	3	3	2-23	13.98	9.30	8.56	8.00
747-4007	4007	4	4	2-23	12.96	11.78	10.84	10.13

PA-6000 SERIES



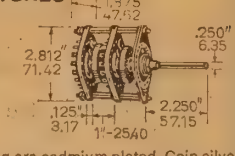
Miniature ceramic rotary switches. 1.312" dia. Positive 30° indexing. Adjust. stop, 450 mA @ 115 VAC 2.6 A @ 28 VDC. Lockwasher, nut incl. Wt. 4 oz.

SHORTING TYPES

Stock No.	Type PA-	Total Poles	No. of Pos.	No. of Sec.	EACH 1-9	10-24	25-49	50-Up
747-6002	6002	2	2-5	1	8.75	5.83	5.36	5.01

SEE THE BOTTOM OF PAGE 165 FOR KNOB TO FIT ALL OF THE ABOVE ROTARY SWITCHES.

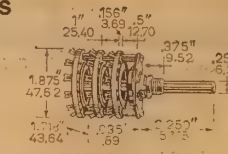
JV-9000 HEAVY-DUTY ROTARY POWER SWITCHES



Silicone-treated ceramic switches for transmitters, industrial and commercial controls, and test gear. Rated 9A at 115VAC (resistive). Breakdown, 3000V rms. 20 positive indexing; adjustable stop. All metal parts except clips, contacts and index spring are cadmium plated. Coin silver contacts. Non-shorting. Bushing, ⅜"x32 thread, ⅜" long. Flatted shaft, ¼x2¼" from mounting surface. ⅛" thick ceramic sections; 1" between sections. Wafer size, 2x2¹³⁄₁₆". Av. wt. 4 oz.

Stock No.	Type JV-	Sec.	Total Poles	No. Pos.	EACH 1-9	10-24	25-Up
747-9001	9001	1	1	2-17	16.33	14.85	13.66
747-9033	9033	1	2	2-8	17.74	16.13	15.00
747-9005	9005	2	2	2-17	27.23	24.75	22.77
747-9003	9003	1	3	2-5	18.25	16.59	15.26
747-9035	9035	2	4	2-8	29.91	27.19	25.01
747-9007	9007	2	6	2-5	31.21	28.37	26.10
747-9037	9037	3	6	2-8	42.45	38.59	35.50

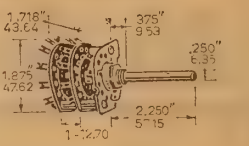
SERIES 2500 CERAMIC ROTARY SWITCHES



Silicone-treated for band change and tap-switch use. Breakdown, 1500V rms. All rated 2.25A @ 28VDC; 350 mA @ 115VAC, make and break. resistive. Front plate, 1²⁰⁄₃₂"x1⅞" dia. ½" from plate and between sections for 1- and 2-sections switches. 1" spacing for others. Bushing, ⅜" dia. x ⅜" long. Shaft, ¼" dia. x 2¼" long. Positive 30° indexing: 2 adj. stops. Mtg. nut, lockwasher. 3 oz. per section.

Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	No. of Sec.	EACH 1-9	10-24	25-49	50-Up
747-2501	2501	1	2-6	1	5.93	3.95	3.63	3.40
747-2503	2503	1	2-11	1	6.35	4.24	3.90	3.65
747-2505	2505	2	2-5	1	7.03	4.69	4.31	4.03
747-2508	2507	3	2-3	1	7.30	4.85	4.46	4.17
747-2511	2511	2	2-6	2	9.25	6.16	5.67	5.30
747-2513	2513	2	2-11	2	10.08	6.71	6.17	5.77
747-2515	2515	4	2-5	2	11.00	7.34	6.75	6.31
747-2525	2525	6	2-5	3	11.44	10.40	9.57	8.94

SERIES 1400 PHENOLIC ROTARY SWITCHES



Ideal for band changes and general tap switch use where miniaturization not necessary. Index assy's. and hdwe. same as Series 2500. Positive 30° indexing. Rated 2.25A @ 28VDC, 350 mA @ 115VAC, make and break resistive. Nut, washer incl. Wt. 3 oz./sect.

Non-Shorting Stock No.	Non-Shorting Mfr's Type	Total Poles	No. of Pos.	No. of Sec.	EACH 1-9	10-24	25-49	50-Up
747-1401	1401	1	2-6	1	4.38	2.92	2.69	2.51
747-1403	1403	1	2-11	1	4.60	3.06	2.82	2.63
747-1411	1411	2	2-6	2	5.83	3.88	3.57	3.34
747-1413	1413	2	2-11	2	7.10	4.73	4.35	4.07
747-1415	1415	4	2-5	2	7.30	4.86	4.47	4.18
747-1429	1429	4	2-11	4	13.15	8.97	8.09	7.56

PA-300 SERIES SHAFT/INDEX ASSEMBLIES

Hardware for assembling miniature switches. Each contains a 30° PA index assembly, adjustable stop plate, assorted spacers, tie bolts, nuts, fiber spacer washers, lock washers, instructions. 3 oz.

Stock No.	Type PA-	Shaft Lgth.	Sections	EACH 1-9	10-24	25-49	50-Up
747-0300	300	2"	1-3	2.63	1.75	1.61	1.51
747-0301	301	4"	4-6	3.85	2.56	2.36	2.20
747-0302	302	6"	7-9	5.40	3.60	3.32	3.10

See Page 2 for the Allied Electronics Facility Nearest You

Rotary & Single-Section Switches; Knob



SERIES 3100J and 3200J SINGLE-SECTION SWITCHES

Enclosed, low voltage switches. Phenolic resin insulation. ⅜" threaded bushing ⅜" long. ¼" dia. shaft 2" long. Shafts grooved at lengths for easy cutting. 1 1⁵⁄₁₆" base types have adjustable stops. Breakdown rating-500 V, AC or DC. Current ratings (resistive load): 125 amps at 300 VDC; 3 amps at 6 VDC; 2 amps at 6 VAC. 4 oz. **Dial Plates:** For 1¼" base switches 3100J and 3200J. Etched aluminum. Black background. 1 ¹³⁄₁₆" dia. plate. Mtg. hole-⁷⁄₁₆" dia. See (*) in table below to order.

SEE BOTTOM OF PAGE FOR KNOB

Shorting		Non-Shorting		Poles	Positions	Base Dia. In.	EACH			
Stock No.	Mfr's Type	Stock No.	Mfr's Type				1-9	10-24	25-49	50-Up
851-1415	3115J	851-1485	3215J	1	5	1¼	4.20	2.80	2.58	2.40
851-1412	31112J	851R1472	32112J	1	12	1¼	5.42	3.70	3.41	3.17
.....	.....	851-1493	3223J	2	3	1¼	4.83	3.18	2.94	2.72
.....	.....	851R1496	3226J	2	6	1¼	5.34	3.81	3.52	3.27
.....	.....	851-1534	3234J	3	4	1¼	6.17	4.36	4.03	3.74
.....	.....	851-1542	3242J	4	2	1¼	5.88	3.82	3.52	3.27
.....	.....	851-1543	3243J	4	3	1¼	5.95	3.86	3.57	3.31
.....	.....	851-1477	32117J	1	17	1 1⁵⁄₁₆	10.25	6.50	6.00	5.57
.....	.....	851-1499	3229J	2	9	1 1⁵⁄₁₆	9.59	5.98	5.52	5.12
.....	.....	851-1536	3236J	3	6	1 1⁵⁄₁₆	5.20	3.41	3.15	2.92

30° SPACING FOR 1¼" BASE SWITCHES

Mfr's Type	Marking	Mfr's Type	Marking
372	1 to 2	382	1 to 12
373	1 to 3	383	Off 1 to 3
374	1 to 4	384	Off 1 to 4
375	1 to 5	385	Off 1 to 5
376	1 to 6		
380	1 to 10	390	Off 1 to 10

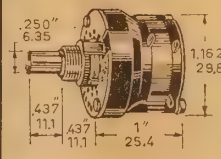
*851-0XXX ..... Each .57

***TO ORDER DIAL PLATES:** Fill in Mfr's Type No. in place of XXX in 851-0XXX. Example: Type 372 becomes 851-0372.

• UL Recognized

NEW!

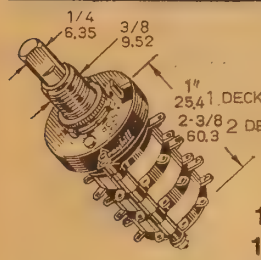
FIXED STOP 1", 1 AMP ROTARY SWITCH



44A90-01-2-2N. Single deck switch. Two poles, two positions. 90° angle of throw. Rated at 1 amp. Non-shorting wiping contacts. ¼" flatted shaft, .437" long. ⅜"-32-2A thread. .437" bushing length. Life expectancy: 100,000 mechanical cycles. Mounting hardware of two mounting nuts and one internal tooth lockwasher is included. Stop strength: 15 pound-inches minimum.

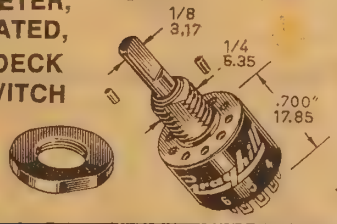
801-1011. 1-9 ..... Each 14.32
10-25 ..... Each 13.18 25-Up ..... Each 12.33

ENCLOSED LOW CURRENT ROTARY SWITCHES WITH ADJUSTABLE STOPS



1" DIAMETER, 1-AMP RATED, SINGLE-DECK SWITCH

½" DIAMETER, 300mA RATED, SINGLE-DECK SWITCH



1" DIAMETER, 1-AMP RATED, SINGLE-DECK SWITCHES

Adjustable stop switches provide the form, fit and function equivalent to their fixed-stop counterparts; offer excellent reliability in thousands of applications. Adjustable stops let you set and reset the number of positions per pole. Stops are adjusted by locating stop washers at front of switch. Switches have ¼" shaft diameter and ⅜" bushing diameter. Behind-panel distance: approximately 1". Solder lug terminals.

1" DIAMETER, 1 AMP

Stock No.	Mfr's Type	No. of Poles	Max. Pos. Ea. Pole	EACH		
				1-9	10-24	25-Up
801-0980	42D36-01-1-AJN	1	10	13.35	12.28	11.21
801-0990	42D36-01-2-AJN	2	5	14.15	13.02	11.89
801-1060	44D30-01-1-AJN	1	12	13.65	12.56	11.47

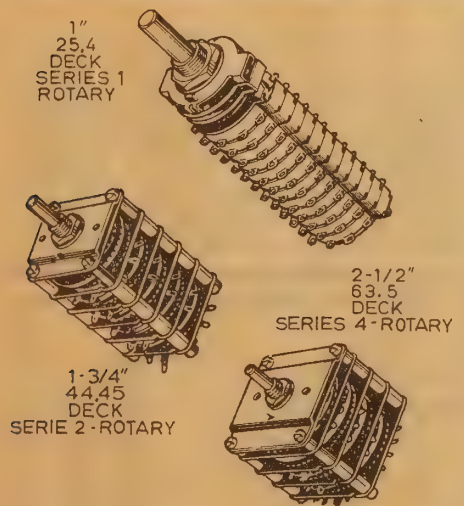
½" DIAMETER, 300 mA RATED, SINGLE-DECK SWITCHES

Adjustable stop version of popular single-deck rotary switch, offering the form, fit and function equivalent to its fixed-stop counterpart. Sealed or unsealed. The adjustable stops let you set and reset the number of positions per pole, by removing of panel nut (or panel seal nut) and relocating stop pins. Has ⅛" shaft diameter, ¼" bushing diameter. Behind-panel distance: approx. 0.7". *Indicates sealed type; others unsealed. Solder lug term.

½" DIAMETER, 300 mA

Stock No.	Mfr's Type	No. of Poles	Max. Pos. Ea. Pole	EACH		
				1-9	10-24	25-Up
801-1910	50CD36-01-2-AJN	2	5	14.35	13.20	12.05
801-1920	50MD36-01-1-AJN	1*	10	13.30	12.24	11.17

INDUSTRIALLY-RATED ROTARY SWITCHES



1" WAFER SERIES 1 ROTARY SWITCH

Shorting type rotary switch. Silver alloy movable button-type contacts provide dual current paths and reduce axial stress. 6-position (adjustable 2 to 6) stops can be installed or changed in field. Rated 10 A res. at 115 VAC and 28 VDC; 10 A ind. at 28 H and 28 VDC. Indexing angle 30°, temp. range: −65°C to +125°C. ⅜" lg. bushing and 1" non-flatted shaft. ⅜"-32 threaded bushing. *Behind panel.

1" DIAMETER—SERIES 1

Stock No.	Mfr's Type	Number of		Max. Depth*	EACH		
		Poles	Wafers		1-9	10-24	25-Up
757-1530	1J04A6-1	1	1	0.895"	10.55	8.81	7.78
757-1561	1J52A12-2	2	4	1.510"	19.04	16.67	15.68

1¾" DECK SERIES 2 ROTARY SWITCH

Non-shorting type rotary switch. Two poles per deck. Feature solid silver alloy contacts; adjustable position stops can be installed or changed in field. Indexing angle 22.5°. Terminals accept a max. of two #20 wire leads; integral with contacts. Rated 10 A cont. for max. temp. rise of 30°C; 5 A at 10 VDC, 40,000 cycles; 2 A at 120 VAC, 10,000 cycles. Temp. range: ±65°C to +125°C. Mtg: panel holes for bushing 0.380" ±.005". Bushing ⅝" lg.; non-flatted shaft 1" lg. *Back of panel.

1¾" DECK SERIES 2 ROTARY SWITCH

Stock No.	Mfr's Type	No. of Positions	Total Decks	Depth Inches*	EACH		
					1-9	10-24	25-Up
757-1657	2C18A7-3	7	3	2.333	49.09	32.30	27.46
757-1680	2E06A11-1	11	1	1.187	47.31	30.00	25.40
757-1752	2H56A8-3	8	3	2.333	41.91	27.60	23.46

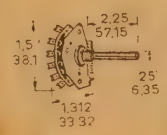
2½" DECK SERIES 4 ROTARY SWITCHES

Rotary switches designed to meet stringent industrial standards. Dual leaf wiper arms provide low and stable contact res. Rated 10 A continuous for max. temp. rise of 30°C; 10 A at 10 VDC and 0.25 A at 120 VAC for 50,000 cycles. Temp.: −40°C to +85°C. Bushing ⅝" lg.; ⅜"-32 threaded bushing; non-flatted shaft 1" lg. All are shorting switches — overlapping or make-before-break, except † which is non-shorting—non-overlapping or break-before-make. Index angle on Type 4A, 7.5°; on Type 4E, 15°. *Back of panel.

2½" DECK SERIES 4 ROTARY SWITCHES

Stock No.	Mfr's Type	Poles per Deck	Pos. per Pole	No. of Decks	Depth* Inches	EACH		
						1-9	10-24	25-Up
757-1902	4A00A48-2	1	48	2	2.046	52.30	30.70	26.10
757-1917	4A06A23-3	2	23	3	2.619	62.29	41.00	34.85
757-1932	4A18A11-3	4	11	3	2.619	70.64	46.50	39.53
757-1965	4E50A24-1	1	24	1	1.473	32.56	21.50	18.28
757-1975	4E56A12-1†	2	12	1	1.473	33.06	21.80	18.53
757-1977	4E56A12-3	2	12	3	2.619	62.29	41.00	34.85
757-1987	4E68A6-3	4	6	3	2.619	70.64	46.50	39.53

GENERAL PURPOSE ROTARY



Type 1451. Four-pole, two-position. Phenolic-insulated. Breakdown: 1500VAC RMS. Bushing ⅜" (9.52mm) diameter x ⅜" (9.52mm). Shaft, 2¼" (57.15mm). 1.5 A at 28VDC, .23 A at 115VAC. Momentary action. Wt. 3 oz. (85gm).

747-1451. 1-9 ..... Ea. 5.90 10-24 ..... Ea. 3.93
25-49 ..... Ea. 3.62 50-Up ..... Ea. 3.37

POINTER KNOB

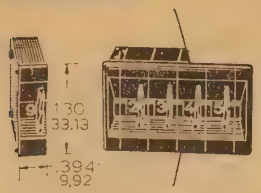


Pointer bar rotating knob. A high quality knob for use throughout the industry. Order large quantities to fulfill all your needs. Made from quality long-lasting phenolic plastic, with high gloss finish. Standard set screw construction provides one cup point slotted head set screw. Set screws are hardened steel, cadmium plated, iridite finish. ¼" diameter molded hole and slotted set screws. Size: (A) 1¼" (31.75mm), (B) ⅝" (15.88mm).

543-2300. 1-99 .. Ea. .21 100-499 .. Ea. .16 500-Up .. Ea. .14

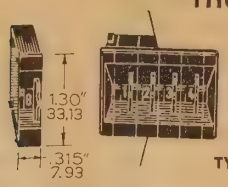
Thumbwhelel and Snap-Action Switches

THUMBWHEEL SWITCHES



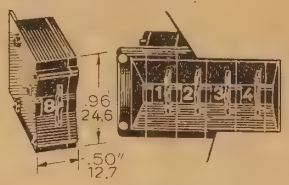
TYPE H

1.30" high x .394" wide. Large numeric readout. Easy, snap-in front-panel mounting. Eliminates mounting screws. 230 output codes to choose from. Up to 11 detent positions available. Unlimited options and accessories.



TYPE M

1.30" high x .315" wide. Thinnest thumbwheel switch — only 5/16" wide. Easy, snap-in front-panel mounting. Eliminates mounting screws. 230 binary codes to choose from. Up to 11 detent positions available.



TYPE P

.96" high x .394" wide. Back panel mounting. With optional spacer, retrofits existing designs for ½" wide housing (.96" (24mm) H x .50" (12.7mm) W). 230 output codes. Up to 11 detent positions available. Large numeric readout. Minimum panel area.

SPECIFICATIONS

Working Voltage: 0-50 VAC or VDC. Switching capacity: 0.1 amp at rated voltage. **Contact resistance:** 0.07 ohms maximum. **Insulation resistance:** 100K megohms minimum. **Dielectric strength:** 500 VAC rms at 25°C. **Housing:** ABS polymide plastic. **Circuit Board:** NEMA Grade FR-3. **Contact rotor:** precious metal alloy. **Contact stator:** .0003 Gold over Nickel. **Temperature range:** —40°C to +80°C. **Life:** Exceeds 1 million detent operations.

THUMBWHEEL SWITCHES

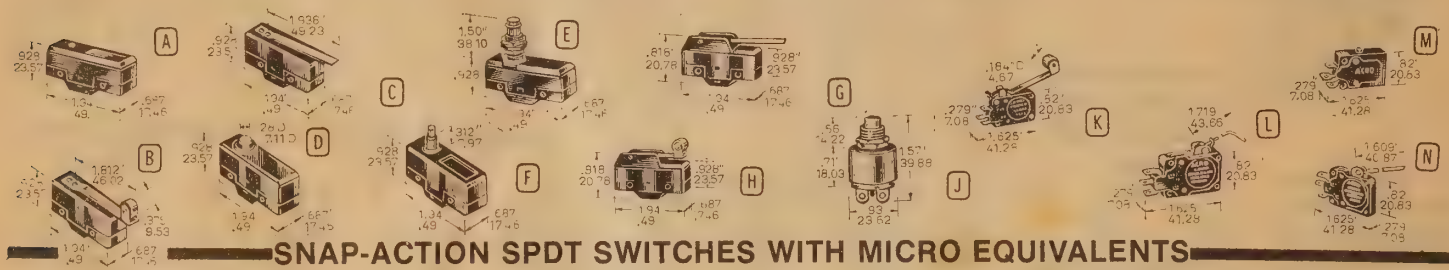
Stock No.	Type H	Stock No.	Type M	Stock No.	Type P	Description (All switches 10 position)	EACH 1-9	10-49	50-99	100-Up
657-0051	HB010	657-0161	MB010	657-0261	PB010	Decimal (one out of 10)	6.50	5.00	4.45	4.00
657-0071	HB140	657-0181	MB140	657-0281	PB140	BCD plus complement, two commons	9.20	7.10	6.30	5.65
657-0091	HB731	657-0201	MB731	657-0301	PB731	BCD	6.50	5.00	4.45	4.00

ACCESSORIES

Stock No.	Type H	Stock No.	Type M	Stock No.	Type P	Description	EACH 1-9	10-49	50-99	100-Up
657-0021	HBW	657-0121	MBW	657-0221	PBW	End Plate (pair)	2.00	1.55	1.40	1.25
657-0111	M2X	Universal, you cut to appropriate length				Rod, 240mm. Threaded entire length. With nuts.	.90	.65	.60	.55

HOW TO DETERMINE ROD LENGTH

Type	Multiply No. of Switches By	and Add
H	10	10
M	8	8
P	10	8



SNAP-ACTION SPDT SWITCHES WITH MICRO EQUIVALENTS

STANDARD-DUTY TYPES

Excellent repeatability, low traverse time, high contact pressure. Contacts rated 15 amps. 120/240/480 VAC; 0.5 A at 120 VDC. *Solder terminals; others screw.

Stock No.	Mfr's Type	Oper. Force Oz.	Pre-trav. In.	Fig.	EACH 1-9	10-19	20-Up
905-0454	BRD2-1A-1S	9-13	.020	A	4.71	2.93	2.60
905-0493	BRD2-5L*	5	.156	C	5.15	3.20	2.84
905-0495	BRD2-5L-1S	5	.156	C	5.44	3.38	3.00
905-0473	BRD2-2M*	5	.156	B	6.45	4.01	3.56
905-0478	BRD2-2M-1S	5	.156	B	6.74	4.19	3.72
905-0498	BRD2-70-1S	9-13	.025	D	5.80	3.60	3.20
905-0457	BRD2-1P*	9-13	.025	E	9.57	5.94	5.28
905-0458	BRD2-1P-1S	9-13	.025	E	9.86	6.12	5.44
905-0461	BRD2-10-1S	9-13	.025	F	6.53	4.05	3.60
905-0372	BRD2-LW8*	2½	.406	G	5.30	3.29	2.92
905-0374	BRD2-LW8-1S	2½	.406	G	5.51	3.42	3.04
905-0389	BRD2-LW228*	6	.140	H	6.68	4.14	3.68
905-0391	BRD2-LW228-1S	6	.140	H	6.95	4.32	3.84

HEAVY-DUTY TYPES

Rated 21 amps, 120-240-480 VAC; 1 hp at 120 VAC and 2 hp at 240 VAC. All have screw terminals.

Stock No.	Mfr's Type	Oper. Force Oz.	Pre-trav. In.	Fig.	EACH 1-9	10-Up
905-1215	FAD2-1A-1S	10-18	1/20	A	4.71	2.93
905-1240	FAD2-5L-1S	9	11 32	B	5.44	3.38
905-1229	FAD2-1P-1S	10-18	1/20	E	9.86	6.12
905-1202	FAD2-LV-1S	2½	5/8	G	6.02	3.74
905-1204	FAD2-LV2-1S	2½	15.32	H	7.47	4.64

SNAP-ACTION PUSHBUTTON SWITCHES

Panel mount; momentary contact; overtravel plunger. Solder lug term. SPST; rated 6 A, 230 VAC; 12 A, 125 VAC. Oper. force, 10-15 oz. Min. overtravel, .007". 3DO5-5P has black button; 3DC5-5P red.

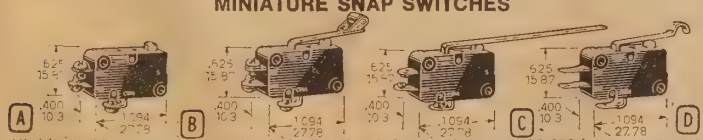
Stock No.	Mfr's Type	Fig.	Circuit	Pre-travel In.	EACH 1-9	10-19	20-Up
905-5811	3DO5-5P	J	N.O	.10	5.22	3.24	2.88
905-5805	3DC5-5P	J	N.C.	.03-.06	5.22	3.24	2.88

MINIATURE LIGHT-PRESSURE SWITCHES

Shock resistant miniature light-pressure switches for long-life performance. "M" types have 1/32" pretravel and are rated 10 amps, 125-250 volts AC. "CM" types have 3/64" pretravel and are rated 10 amps, 250 volts AC. All are single pole double throw. †Indicates force in grams. Solder terminals.

Stock No.	Mfr's Type	Actuator Type	Oper. Force Oz.	Fig.	EACH 1-9	10-Up
905-5701	1MD1-1A	Pin plunger	6	M	3.63	2.25
905-5710	2MD3-1A	Pin plunger	10	M	3.63	2.25
905-5500	1CMD1-2AXX	Pin plunger	†20-27	M	3.63	2.25
905-5505	2CMD1-2AXX	Pin plunger	†33-44	M	3.63	2.25
905-5502	1CMD1-2AXX-A22	Wire Leaf	†12.5	L	4.42	2.75
905-5507	2CMD1-2AXX-A24	Flat Leaf	†4	N	4.42	2.75
905-5501	1CMD1-1AXX-A23M	Roller Leaf	5-8	K	4.42	2.75
905-5504	1CMD1-18AXX-A27	Nylon Leaf	†6	N	4.93	3.06
905-5703	1MD1A-18A	Pin plunger	6	K	4.73	2.93
905-5901	3CMD1-13AXX-A24	Flat Leaf	†45-60	N	5.14	3.07

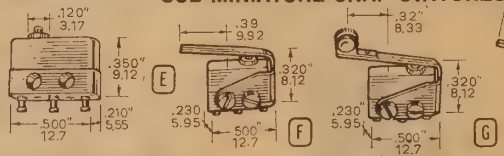
MINIATURE SNAP SWITCHES



Highly stable, low wear mechanism. SPDT; 15 A and ⅓ hp at 125-250 VAC, 10 A at 28 VDC. Operating position, .578" ±.015. Oper. force, 6-14 oz.; release, 4 oz. min. Size, 1.094 x .625 x .400". U.L., CSA Listed. QC indicates quick-connect term.

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-24	25-Up
757-0660	SS12ET10	A	Screw terminals	2.60	1.53	1.36
757-0663	SS12ET20	A	Solder lug terminals	2.05	1.17	1.04
757-0666	SS12ET30	A	Quick-connect terminals	1.81	1.04	.92
757-0669	SS12ET302L1	C	Straight lever (.840"); QC	2.13	1.26	1.12
757-0672	SS12ET302L2	C	Straight lever (1.40"); QC	2.13	1.26	1.12
757-0675	SS12ET302L6	C	Straight lever (2.34"); QC	2.13	1.26	1.12
757-0677	SS12ET302L14	C	Straight lever (2.75"); QC	2.13	1.26	1.12
757-0690	SS12ET3012L5	D	Simul. roller (1.285"); QC	2.13	1.26	1.12
757-0691	SS12ET30102L3	B	Roller lever (.81"); QC	2.44	1.44	1.28
757-0692	SS12ET30102L4	B	Roller lever (1.34"); QC	2.44	1.44	1.28

SUB-MINIATURE SNAP SWITCHES



Rated for 50,000 operations. 7 amps capacity; 25 amps inrush. SPDT contacts; turret term. Temp.: —65° to +265°F. Oper. force, 5 oz. except low force, 3 oz. Release force, 1 oz. Pretravel, .020". Overtravel, .010". Oper. position, .320" ±.015. U.L. Listed. .500 x .380 x .210". **Note: SW54 series are acuators only not with switch.**

Stock No.	Mfr's Type	Fig.	Description	EACH 1-9	10-24	25-49	50-Up
757-0610	SS10AT40	E	Standard	4.95	3.87	3.44	3.01
757-0612	SS10FT40	E	Low force	5.64	4.41	3.92	3.43
757-1201	SW54SA8380-1	F	Leaf	.32	.25	.22	.20
757-1202	SW54SA8380-2	F	Reverse leaf	.32	.25	.22	.20
757-1203	SW54SA8380-3	G	Roller leaf	.90	.70	.62	.55
757-1205	SW54SA8380-5	H	Lever	.98	.77	.68	.60

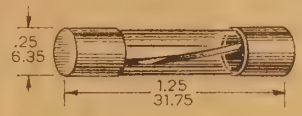
Standard Instrument Fuses

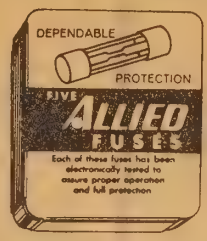
INSTRUMENT FUSES FOR EVERY REQUIREMENT

FAST ACTING FUSES

Quick acting, normal-blowing fuses for short time lag applications. Protect meters, radios, amplifiers, etc. Diagonal alignment of fuse element assures accurate blowing even when element is expanded by heat. Unaffected by high operating temperatures. Carry 110% of rating. Will open at 135% in one hour or less, at 200% in five seconds or less. 250 volts maximum except † 32 V. Listed by U.L. through 8 amps. Shpg. wt: 2 oz. (56.7 gm). **Sold only in packages of 5.**

Contact Allied for 10,000 Lot Quantity Prices





SLOW BLOW FUSES

Provide protection for equipment having high reactive current surges or heavy starting currents—such as magnets, solenoids, motors and lamp circuits, but still blow quickly from continued overloads. Carry 110% of rated load 4 hours minimum. Will blow at 135% in one hour or less: 200%, 5 seconds minimum. Employ anti-fatigue construction—compound element with spring and resistor. 250 volt maximum except * 125 volts, and † 32 volts. Av. shpg. wt.: 2 oz. (56.7 gm). **Sold only in packages of 5.**

Withstand Momentary High-Current Surges but Blow Quickly on Shorts



ALLIED A/3AG/AGC/312000/311000 SERIES STANDARD FUSES

Stock No.	Type	Amp	PER PKG. OF 5		
			1-19	20-99	100-Up
603R0125	312.062/AGC	1/16	2.50	1.85	1.55
603R0126	312.125/AGC	1/8	2.50	1.85	1.55
603-0128	312.187/AGC	3/16	2.50	1.85	1.55
603-0106	312.200/AGC	2/10	2.50	1.85	1.55
603R0107	312.250/AGC	1/4	1.38	1.00	.85
603-0131	312.300/AGC	3/10	1.38	1.00	.85
603-0132	312.375/AGC	3/8	1.38	1.00	.85
603R0110	312.500/AGC	1/2	1.38	1.00	.85
603-0134	312.600/AGC	6/10	1.38	1.00	.85
603R0135	312.750/AGC	3/4	1.38	1.00	.85
603R0113	312001/AGC	1	.96	.75	.65
603R0114	31201.5/AGC	1½	.96	.75	.65
603R0115	312002/AGC	2	.96	.76	.65
603R0116	31202.5/AGC	2½	.96	.75	.65
603R0141	312003/AGC	3	.96	.75	.65
603R0143	311004/AGC	4†	.96	.75	.65
603R0144	311005/AGC	5†	.69	.55	.42
603R0145	311006/AGC	6†	.69	.55	.42
603-0200	31107.5/AGC	7½†	.69	.55	.42
603R0105	311008/AGC	8†	.69	.55	.42
603R0201	311010/AGC	10†	.66	.53	.41
603R0202	311015/AGC	15†	.66	.53	.41
603R0173	311025/AGC	25†	.69	.55	.42
603-0204	311030/AGC	30†	.66	.53	.41

ALLIED A/3AG/MDL/313000 SERIES SLOW-BLOW FUSES

Stock No.	Type	Amp	PER PKG. OF 5		
			1-19	20-99	100-Up
603-0212	313.100/MDL	1/10	3.00	2.25	1.90
603-0213	313.125/MDL	1/8	3.00	2.25	1.90
603R0218	313.250/MDL	1/4	3.00	2.25	1.90
603-0219	313.300/MDL	3/10	3.00	2.25	1.90
603-0220	313.375/MDL	3/8	3.00	2.25	1.90
603R0222	313.500/MDL	1/2	3.00	2.25	1.90
603-0223	313.600/MDL	6/10	3.00	2.25	1.90
603R0225	313.750/MDL	3/4	3.00	2.25	1.90
603-0226	313.800/MDL	8/10	3.00	2.25	1.90
603R0227	313001/MDL	1	3.00	2.25	1.90
603-0229	3131.25/MDL	1¼*	2.88	2.15	1.80
603R0230	31301.5/MDL	1½*	2.88	2.15	1.80
603-0231	31301.6/MDL	1 6/10*	2.88	2.15	1.80
603R0232	313002/MDL	2*	2.88	2.15	1.80
603R0233	31302.5/MDL	2½*	2.50	1.85	1.55
603R0235	313003/MDL	3†	2.50	1.85	1.55
603-0236	31303.2/MDL	3 2/10†	2.50	1.85	1.55
603R0237	313004/MDL	4†	2.50	1.85	1.55
603R0238	313005/MDL	5†	2.50	1.85	1.55
603R0239	3136.25/MDL	6¼†	2.50	1.85	1.55
603-0240	313007/MDL	7†	2.50	1.85	1.55
603-0242	313008/MDL	8†	2.50	1.85	1.55
603R0243	313010/MDL	10†	2.50	1.85	1.55
603R0244	313015/MDL	15†	2.50	1.85	1.55
603R0245	313020/MDL	20†	2.50	1.85	1.55
603-0247	313030/MDL	30†	2.50	1.85	1.55
.....	.....	.....	...	...	...
.....	.....	.....	...	...	...



FAST-ACTING INSTRUMENT FUSES

Series 361000/362000 or AGX instrument fuses. Formerly 8AG. Rated 250 volts maximum except *rated 125V. Size: 1" long x ¼" dia. (25.4 x 6.35mm). Shpg. wt. 2 oz. (56.7gm). **Sold in packages of 5.**

Stock No.	Amps	PER PKG. OF 5		
		1-4	5-99	100-Up
845-0430	1/200	6.50	4.89	4.08
845-0432	1/32	4.75	3.57	2.98
845-0433	1/16	3.00	2.25	1.88
845-0434	1/10	2.50	1.89	1.58
845-0435	1/8	2.50	1.89	1.58
845-0436	¼	1.38	1.02	.85
845-0438	½	1.38	1.02	.85
845-0439	1	.96	.72	.60
845-0440	1½	.96	.72	.60
845-0441	2	.96	.72	.60
845-0442	3*	.96	.72	.60
845-0443	5*	.96	.72	.60



FUSETRON FNM FIBER TUBE FUSES

Dual-element, slow-blowing. Fuse link operates only on high overloads or short circuits. Thermal cut-out operates on low overloads, slowly, giving long time lag—protects against continued overloads. Rated 250 V max. Size: 1½" long x 13/32" dia. (38.10 x 10.31 mm). U.L. Listed. Shpg. wt. 2 oz. (56.7 gm). **Sold in pkgs. of 10.**

Stock No.	Amps	PER PKG. OF 10		
		1-2	3-7	8-Up
740-0094	6/10	11.00	9.30	7.09
740-0096	1	11.00	9.30	7.09
740-0101	2	11.00	9.30	7.09
740-0110	5	11.00	9.30	7.09
740-0115	6¼	11.00	9.30	7.09
740-0120	7	11.00	9.30	7.09
740-0125	10	11.00	9.30	7.09
740-0135	15	11.00	9.30	7.09



PICOFUSE SUB-MINIATURE FUSES

For micro circuits of 125 V or less where short circuit may be 300 amps at 125 VDC, requiring fast action. Fuses may be encapsulated. Blow specifications: 100%. Four hours minimum: 200%. 5 seconds maximum. Size: 9/32" long x 3/32" diameter (7.14 x 2.38 mm). Shpg. wt. 2 oz. (56.7 gm). **Sold only in packages of 5.**

275000 AXIAL LEADS

Stock No.	Amps	PER PKG. OF 5		
		1-4	5-99	100-Up
845-0044	1/8	4.80	3.60	2.40
845-0045	¼	4.80	3.60	2.40
845-0047	½	4.80	3.60	2.40
845-0049	1	4.21	3.15	2.10
845-0053	2	4.21	3.15	2.10
845-0055	3	4.21	3.15	2.10
845-0057	5	4.21	3.15	2.10



CERAMIC TUBE FUSES

Series 314000 or ABC high-interrupting capacity fuses for circuits capable of delivering currents as high as 25,000 amps at 125 volts, or 10,000 amps at 250 volts. *125 volts maximum; others 250 volts maximum. Carry 110%, open at 135% within one hour. Fuses of 15 amps and less are U.L. Listed. **In pkgs. of 5.**

Stock No.	Amps	PER PKG. OF 5		
		1-4	5-99	100-Up
845-0255	1	2.82	2.35	1.88
845-0262	3	2.82	2.35	1.88
845-0264	5	1.75	1.32	1.10
845-0265	6	1.75	1.32	1.10
845-0269	8	1.75	1.32	1.10
845-0271	10	1.75	1.32	1.10
845-0272	12	1.75	1.32	1.10
845R0273	15	1.75	1.32	1.10
845-0274	20	1.75	1.32	1.10
845-0275	25*	2.63	1.98	1.65

NEW!



SERIES 318000/GJV 3AG "NORMAL-BLO" PIGTAIL FUSES

These are quick-acting fuses with 1½" long, #20 tinned copper leads for use in electronics equipment where direct wiring into the chassis is desirable. Blow Spec.: 110%: 4 hrs., min.; 135%: 1 hr., max.: 200%: 5 sec., max. Voltage rating: 250V, except * 125V. UL listed and CSA certified.

Stock No.	Mfr's Type	Amp. Rating	PER PKG. OF 5		
			1-19	20-99	100-Up
845-0900	318.250	¼	2.38	1.77	1.48
845-0901	318.500	½	2.38	1.77	1.48
845-0902	318001	1	1.88	1.41	1.18
845-0903	318002	2	1.88	1.41	1.18
845-0904	318003	3	1.88	1.41	1.18
845-0905	318004	4	2.00	1.50	1.25
845-0906	318005	5	2.00	1.50	1.25
845-0907	318007	7*	2.00	1.50	1.25

NEW!



SERIES 315000/MDV 3AG "SLO-BLO" PIGTAIL FUSES

Designed to withstand high in-rush and momentary peak currents, are quick-acting under short circuit conditions. These pigtail fuses are used in television receivers and applications where space economy is important. Leads are 1½" long, #20 tinned copper wire. Blow Spec.: 110% 4 hrs. min.: 135%: 1 hr., max.: 200% 5 sec., min. UL listed. Voltage rating: 250V.

Stock No.	Mfr's Type	Amp. Rating	PER PKG. OF 5		
			1-19	20-99	100-Up
845-0950	315.500	½	3.75	2.82	2.35
845-0951	315001	1	3.75	2.82	2.35
845-0952	31501.5	1½	3.63	2.73	2.28
845-0953	315002	2	3.63	2.73	2.28
845-0954	31502.5	2½	3.00	2.25	1.88
845-0955	315003	3	3.00	2.25	1.88
845-0956	315004	4	3.00	2.25	1.88
845-0957	315005	5	3.00	2.25	1.88

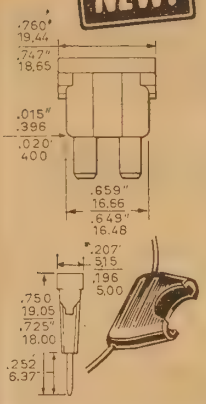
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See Page 2 for the Allied Electronics Facility Nearest You

Fuses and Fuseholders

BLADE TYPE TERMINAL FUSES AND HOLDER

NEW!



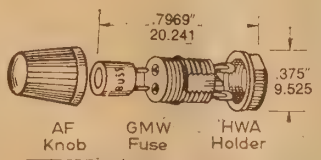
ATO type fuses are made for use in a wide variety of low voltage electronic applications. One-piece element-terminal combination and a tough plastic housing. Color-coded and large, easy-to-read amperage numerals make for easy amperage identification. Voltage rating: 32. Blow Spec.: 110%: 100 hrs., min.; 135%: 1500 sec., max.; 200%: 5 sec., max.; 350%: .080 sec., min. Inline fuse holder supplied with 8" (203.2mm) loop of 16 gauge wire. *Fuse holder fits these ratings only.

Stock No.	Mfr's Type	Amp. Rating	Color Code	PER PKG. OF 5		
				1-9	10-49	50-Up
845-0693	ATO3	3*	Violet	1.75	1.50	1.30
845-0695	ATO5	5*	Tan	1.75	1.50	1.30
845-0697	ATO7.5	7½*	Brown	1.75	1.50	1.30
845-0710	ATO10	10*	Red	1.75	1.50	1.30
845-0715	ATO15	15*	Lt. Blue	1.75	1.50	1.30
845-0720	ATO20	20*	Yellow	1.75	1.50	1.30
845-0725	ATO25	25*	Natural	1.75	1.50	1.30
845-0730	ATO30	30	Lt. Green	1.75	1.50	1.30
845-0690	FHA1	*Inline Fuse Holder		.63	.51	.43

GMW SUBMINIATURE FUSES AND HOLDERS

Type GMW subminiature prong-type fuse rated 125V max. fault current 300A max. Opens at 200% within 10 sec. or less. 0.27" (6.86 mm) dia. ¼" (6.35 mm) long. HWA holder. With Type AF knob. Av. shpg. wt. 2 oz. (56.7 gm). In pkgs of 10.

Stock No.	Amps	PER PKG. OF 10		
		1-9	10-49	50-Up
740-0442	1/10	12.50	10.70	8.90
740-0444	½	12.50	10.70	8.90
740-0446	1	12.50	10.70	8.90
740-0448	2	12.50	10.70	8.90
740-0499	*	13.60	12.45	11.30



*HWA Holder, fits GMW and Type 27300 fuses.

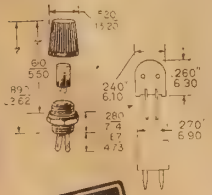
PLUG-IN MICROFUSES



TYPE 27300. Subminiature plug-in fuses with low resistance and high-speed action. Glass cap for visible indication. HWA holders, left. Short-circuit interrupting capacity, 125 volts, 10,000 amps DC. Blow Spec: 100%, 4 hours min.; 200%, 5 sec. max. †Mfr's type is Micro (amp)A, e.g. Micro 1/500A. ¼x1 1/32" (6.35x8.73mm). Wt. 2 oz. (56.7 gm) **Sold only in packages of 5.**

Stock No.	† Amp	PER PKG. OF 5			Stock No.	† Amp	PER PKG. OF 5		
		1-4	5-99	100-Up			1-4	5-99	100-Up
845-0015	1/20	9.81	7.35	4.90	845-0036	2	9.81	7.35	4.90
845-0017	1/10	9.81	7.35	4.90	845-0038	3	9.81	7.35	4.90
845-0023	¼	9.81	7.35	4.90	845-0041	5	9.81	7.35	4.90
845-0027	½	9.81	7.35	4.90					
845-0032	1	9.81	7.35	4.90					

FRONT PANEL MOUNT MICROFUSE HOLDER



Rated @ 5A, 125V max. Accepts standard microfuses with .025 dia. pins on .100 ctrs., also .040 dia. pins on .150 ctrs. Max. panel thickness ⅛". Supplied with all parts assembled to holder.

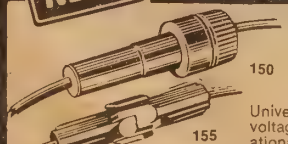
845-0806. Type 281 006A. 1-9 ..... **Each 1.84**
10-49 ..... **Each 1.38** **50-Up** ..... **Each 1.26**

PC MOUNTED MICROFUSE/PICOFUSE HOLDER

Subminiature fuseholder designed for horizontal mounting. Rated for 5A max. operation at 125V.

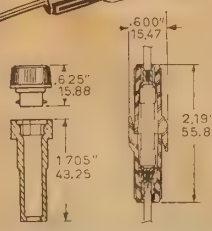
845-0807. Type 281 007. 1-9 ..... **Each .62**
10-49 ..... **Each .47** **50-Up** ..... **Each .43**

NEW!



UNIVERSAL IN-LINE FUSEHOLDERS

Universal fuseholders for 3AG and SFE fuses. Used in low-voltage applications in the automotive, marine and recreational field. **Type 150 145.** Heavy-duty type constructed in high-temp. thermosetting resin. Has spring-locked, bayonet-type knob. Supplied with a 15" loop of 14 gauge vinyl-covered wire and three springs in different lengths. **Type 155 100.** Standard type designed with a simple "twist lock" for rapid opening and positive closing allowing easy removal and replacement. Supplied with an 8" loop of #14AWG vinyl insulated wire and springs to accommodate any ¼" dia. fuse.



Stock No.	Mfr's Type	EACH		
		1-9	10-49	50-Up
845-0100	155 100	.70	.52	.44
845-0145	150 145	1.00	.75	.63

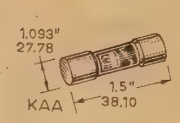
ALLIED FC FUSEHOLDER, SWITCH AND PILOT LIGHT

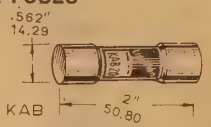
115/230 V, 60 Hz AC. Take 6-amp quick or slow-lag 3AG fuse. Unit life: 50,000 cycles at 6 per minute. Use with "Fast-On" terminals. **Type FCA:** Separate circuits for main and pilot light. Main rated 6A. **Type FCB:** Same as FCA but one side of pilot light is common with main. Mounts in ½" hole. Suffix F—Plain Ferrule; K—Knurled Ferrule; N—Knurled Nut; W — Escutcheon requiring ¾" dia. hole. 2 oz.

Stock No.	Mfr's Type	EACH	
		1-9	10-Up
565-8035	FCA-F	12.50	6.50
565-8039	FCA-K	12.50	6.50
565-8042	FCA-N	12.50	6.50
565-8057	FCA-W	12.88	6.75
565-8065	FCB-F	12.50	6.50
565-8069	FCB-K	12.50	6.50
565-8072	FCB-N	12.50	6.50
565-8087	FCB-W	12.88	6.75



KAA AND KAB RECTIFIER FUSES





KAA SERIES

Fast-acting fuses for use wherever they are needed. Designed to protect other fused diodes when short occurs. Use in systems with fault current, up to 200,000 amps at 600 volts or less. Maximum voltage: 130 volts. Size: 1½" long x 13/32" diameter (38.1 x 10.31 mm).

Stock No.	Amps	EACH		
		1-9	10-24	25-Up
740-0502	1	2.60	2.05	1.64
740-0514	5	2.60	2.05	1.64
740-0523	10	2.60	2.05	1.64
740-0532	20	2.60	2.05	1.64
740-0538	30	2.60	2.05	1.64

KAB SERIES

Protect semiconductor rectifiers, SCR's, thyristors—wherever a very fast acting fuse is needed. If each diode is fused, shorted diode is taken out of circuit, protecting other diodes. For systems with fault current to 200,000 amps at 600 volts or less. Maximum volts: 250. Size: 2 x 9/16" (50.8 x 14.29 mm).

Stock No.	Amps	EACH		
		1-9	10-24	25-Up
740-0586	15	2.95	2.34	1.90
740-0589	20	2.95	2.34	1.90
740-0592	25	2.95	2.34	1.90
740-0595	30	2.95	2.34	1.90



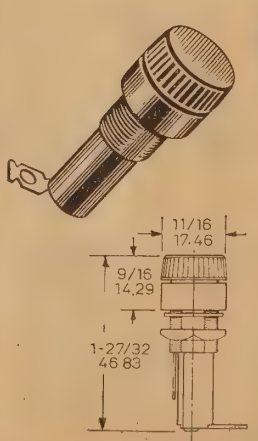
GMT SIGNAL INDICATING FUSES

- **Fit in Limited Mounting Space**
- **Color-Coded Flag Shows Amperage When Fuse Blows**

For multiple mounting of fuses in limited space. ¼" x 1 15/32" (6.35 x 37.31 mm) mounting space. Color-coded plastic flag on spring indicates fuse ampere rating when it blows. Av. shpg. wt. ⅛ oz. (3.55 gm).

Stock No.	Amps	Color of Indicator	EACH			
			1-9	10-99	100-499	500-Up
740-0412	½	Red	1.13	.84	.77	.70
740-0415	1	Gray	1.13	.84	.77	.70
740-0416	1½	White	1.13	.84	.77	.70
740-0417	2	Orange	1.13	.84	.77	.70
740-0422	3	Blue	1.13	.84	.77	.70
740-0427	5	Green	1.13	.84	.77	.70
740-0439	HLT Fuseholder		1.18	.88	.81	.74

NEW!



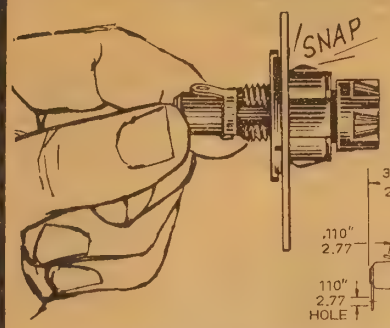
SHOCK SAFE TYPE PANEL FUSEHOLDER

Type 345001. Designed specifically to meet standards set by the I.E.C. Offers absolute protection against electric shock, even under fault conditions. Body made of black electrical grade heat resistant phenolic resin. Bayonet style knob, fuse extractor type with raised letters in black polycarbonate resin. Right-angle terminal. Maximum mounting panel thickness is 3/16". Rated at 20 A for any voltage to 300 volts. UL Component Program recognized and Certified by C.S.A.

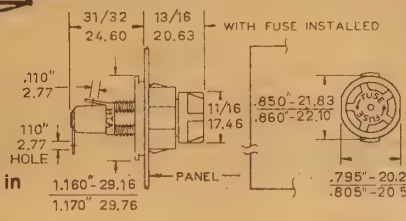
845-0610. Type 345001. **1-9** ..... **Each 1.63**
10-24 ..... **Each 1.22** **25-49** ..... **Each 1.12**
50-Up ..... **Each 1.02**

Fuseholders and Fuse Blocks

"SNAP-LOCK" REAR PANEL MOUNTED FUSEHOLDERS



- **Unique "Snap-Lock" Feature**
- **Easy and Fast to Install**



- **Also Fits ½" Knockout in Electrical Boxes**

Can be pre-wired. A fastening nut is eliminated because the "Snap-Lock" securely holds the fuseholder in place. Simply install by pushing it into panel from rear side. Can be used in panels .025 to .085" thick.

TYPE HTA-00. Takes ¼ x 1¼" fuses. Space saver, extends just 1" behind the panel.

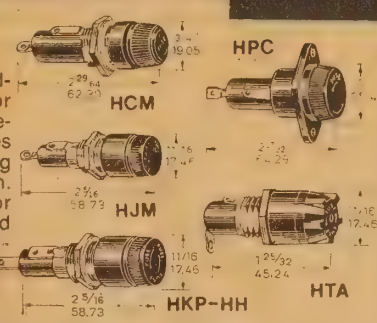
740R3001. 1-9 ..... Each 1.28 **10-49** ..... Each .97 **50-Up** ..... Each .81

TYPE HKP-00. Takes ¼ x 1¼" fuses. Standard fuseholder.

740-3003. 1-9 ..... Each 1.28 **10-49** ..... Each .97 **50-Up** ..... Each .81

PANEL MOUNTED FUSEHOLDERS

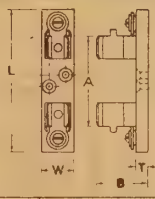
Through-panel mounting fuseholders feature knurled molded cap for quick front-of-panel fuse replacement. Hexnut mounting facilitates installation — drill ½" mounting hole, insert fuseholder and tighten. For use in virtually any electrical or electronic area requiring overload protection. *Indicates quick-connect terminals.



Stock No.	Mfr's Type	Fuse Size	Type Term.	Amp.	EACH 1-9	10-49	50-99	100-Up
740-2001	HCM	9/32x1¼	Solder	18	1.48	1.11	.93	.84
740-2002	HJM	¼x1	Solder	30	.95	.72	.60	.54
740R2003	HKP	¼x1¼	Solder	30	.95	.72	.60	.54
740-2004	HKP-HH	¼x1¼	*¼	30	1.13	.85	.70	.64
740-2005	HPC	13/32x1½	Solder	15	1.63	1.22	1.01	.92
740R2006	HTA	¼x1¼	Solder	15	.95	.72	.60	.54
740-2007	HTA-DD	¼x1¼	*3/16	15	1.13	.85	.70	.64
740-2008	HTA-HH	¼x1¼	*¼	15	1.13	.85	.70	.64

FUSE BLOCKS FOR RECTIFIER PROTECTION FUSES

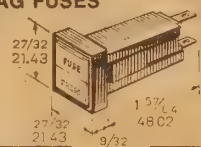
Front-connected fuse blocks to take KAA and KAB fuses for protection of semiconductor rectifiers, are intended for mounting inside the rectifier housing. Base and spacers are constructed of phenolic composition. Spring clips where used are silver-plated beryllium copper for 13/32 inch diameter fuses, and spring bronze in larger sizes. Other current-carrying parts on all blocks are of brass. Rated 1-30 amps.



Stock No.	Mfr's Type	For Type	Poles	Dimensions L x W x T	A	B	EACH 1-9	10-49	50-Up
740-1088	4386	KAB	1	1¼x¾x¾x⅜	1 15/16	2 5/16	2.13	1.59	1.32
740-2015	4515	KAA	1	2 9/16x¾x¾x3/16	1 5/16	1 9/16	1.43	1.07	.89

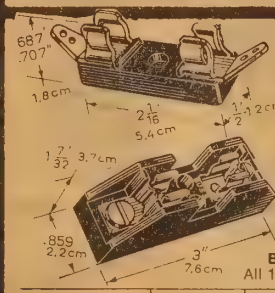
LOW PROFILE FUSE HOLDERS FOR 3 AG FUSES

Snap-in holder for 3AG standard fuses. Color-coded body and cap. Quick-connect solder terminals available in two widths. Withstands 1500 volts between terminals and terminals to ground. Withstands 50 G for 11 msec. vibration; withstands 10-55 Hz at 0.06" double amplitude vibration. Rated 15 amps at any voltage to 250 V. Mounts in .625" sq. hole in 1/32-⅛" thick panel.



Stock No.	Mfr's Type	Term. Size	BODIES Color	EACH 1-9	10-99	100-499	500-Up
845-0667	348670	3/16"	Black	.78	.57	.47	.40
845-0681	348810	¼"	Red	.78	.57	.47	.40
845-0687	348870	¼"	Black	.78	.57	.47	.40
CAPS							
845-0611	348001	...	Red	.28	.20	.16	.14
845-0615	348005	...	White	.28	.20	.16	.14
845-0617	348007	...	Black	.28	.20	.16	.14

FUSE BLOCKS FOR ¼" AND 1½" FUSES



BLOCKS FOR 1¼x¼" FUSES. All feature compact bakelite base, abaloy-plated solder terminals. Number of poles in table below indicates number of fuse positions.

BLOCKS FOR 13/32x1½" FUSES. Have molded phenolic bases, side barriers, screw terminals. Type 3743 is add-on type, each pole locks into next. Specify one type 3742 end barrier for each fuse strip intended. Spring bronze, abaloy-plated clips.

BLOCKS FOR 1¼x¼" FUSES
All 1⅞" lgth. by .500" per pole wide.

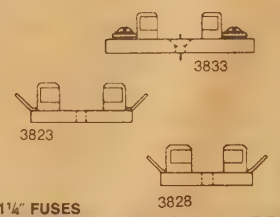
Stock No.	Type	Poles	EACH 1-9	10-49	50-99	100-Up
740R0905	4405	1	.53	.39	.33	.30
740R0906	4408	2	.90	.68	.57	.51

BLOCKS FOR 13/32x1½" FUSES
All 3" lgth. approx. .84" per pole wide.

740-0904	3742	—	.33	.25	.23	.21
740-0900	3743	1	2.20	1.65	1.52	1.38
740-0901	2807	1	1.45	1.09	1.00	.91
740-0902	2808	2	2.38	1.77	1.62	1.49
740-0903	2809	3	3.28	2.46	2.26	2.05

STANDARD FUSE BLOCKS

Black phenolic base. Clips of strong spring bronze. Type 3823 and 3828 have soldered terminals on small base. Mounting holes for No. 6 screw. Type 3833 has screw on full base that provides insulation around terminals.

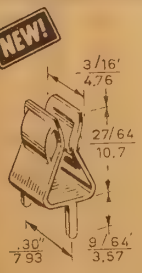


SCREW TERMINALS FOR ¼ x 1¼" FUSES

Stock No.	Mfr's Type	Base Dimensions	No. Poles	EACH 1-9	10-99	100-499	500-Up
740R1000	3833-1	25/32x2⅜"	1	.85	.64	.53	.48
740-1001	3833-2	1 11/16x2⅜"	2	1.75	1.32	1.10	1.00
740-1002	3833-3	2 19/32x2⅜"	3	2.88	2.17	1.81	1.64
740-1004	3833-5	4 13/32x2⅜"	5	4.45	3.34	2.79	2.54
740-1005	3833-6	5 5/16x2⅜"	6	5.33	4.00	3.34	3.04
740-1011	3833-12	10¾x2⅜"	12	10.70	8.02	6.70	6.11
SOLDER TERMINALS FOR ½ x 1¼" FUSES							
740-0951	3823-1	½x1⅝"	1	.50	.37	.31	.28
740-0952	3823-2	1⅛x1⅝"	2	.80	.60	.50	.45
SOLDER TERMINAL FOR ¼ x 1" FUSE							
740-0971	3828-1	½x1⅝"	1	.50	.37	.31	.28

NEW!

P.C. BOARD CLIPS

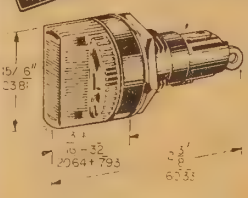


A 3AG fuse clip designed for printed circuit board mtg. Clip material is spring brass and is suitable for current levels up to 15 amperes. Bright dip finish. **Type 102068** is a standard ear type clip with built-in fuse stop. **Type 102069** is the same as above, except without fuse stop. Clip is also suitable for secure mtg. of resistors, capacitors, lamps and similar components.

Stock No.	Mfr's Type	EACH 1-9	10-99	100-499	500-Up
845-0868	102068	.11	.07	.06	.04
845-0869	102069	.11	.07	.06	.04

NEW!

INDICATING PANEL FUSEHOLDERS



Fuseholders for a variety of applications where a visual display indicating a "blown fuse" is desired. Assembled and supplied with rubber washer and hex nut. Lamp type: neon, knob color is clear. Rated current: .002 amp. **Type 344 125A.** Voltage range: 100 to 125V. Resister ±10%: 27,000 ohms. **Type 344 250A.** Voltage range: 200 to 250V. Resister ±10%: 100,000 ohms.

Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-Up
845-0525	344 125A	4.78	2.87	2.63	2.39
845-0550	344 250A	4.78	2.87	2.63	2.39

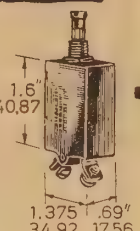
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Cross-Reference and Circuit Breakers

MANUAL RESET CIRCUIT BREAKERS CROSS REFERENCE

Stock No.	Mfr's Type	Wood	Airpax	Heinemann
989-6116	842-201-101	111-201-101	.....	.....
989-6117	842-202-101	111-202-101	.....	.....
989-6532	W67X2Q1-2-5	511-205-101	APG-1-1-6-2-5	JA1-A3-A-5-2
989-6537	W67X2Q1-2-10	511-210-101	APG-1-1-6-2-10	JA1-A3-A-10-2
989-6541	W67X2Q1-2-15	511-215-101	APG-1-1-6-2-15	JA1-A3-A-15-2
989-6546	W67X2Q1-2-20	511-220-101	APG-1-1-6-2-20	JA1-A3-A-20-2
989-6601	W68X2Q1-2-20	518-220-101	APG-11-1-6-2-20	JA2-A3-A-20-2
989-6611	W68X2Q1-2-30	518-230-101	APG-11-1-6-2-30	JA2-A3-A-30-2
989-6180	W91X11-2-2	122-202-101	APL-1-1M-6-2-2	AM1-A3-A-2-2
989-6181	W91X11-2-3	122-203-101	APL-1-1M-6-2-3	AM1-A3-A-3-2
989-6183	W91X11-2-5	122-205-101	APL-1-1M-6-2-5	AM1-A3-A-5-2
989-6188	W91X11-2-10	122-210-101	APL-1-1M-6-2-10	AM1-A3-A-10-2
989-6193	W91X11-2-15	122-215-101	APL-1-1M-6-2-15	AM1-A3-A-15-2
989-6198	W91X11-2-20	122-220-101	APL-1-1M-6-2-20	AM1-A3-A-20-2
989-6346	W92X11-2-10	190-210-101	APL-11-1M-6-2-10	AM2-A3-A-10-2
989-6351	W92X11-2-15	190-215-101	APL-11-1M-6-2-15	AM2-A3-A-15-2
989-6356	W92X11-2-20	190-220-101	APL-11-1M-6-2-20	AM2-A3-A-20-2
989-6366	W92X11-2-30	190-230-101	APL-11-1M-6-2-30	AM2-A3-A-30-2
989-6440	W93X11-2-30	220-230-101	APL-111-1M-6-2-30	AM3-A3-A-30-2

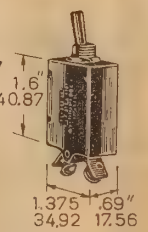
MODELS 109 AND 842 PUSH-PULL TYPES THERMAL



Convenient push-pull button for operating or closing circuits. **Max. Operating Voltage:** 250 VAC and 32 VDC. **Tripping Time:** Model 109 is 8-20 seconds at 200% with interruption capacity 1,000 amps and Model 842 is 11-42 seconds at 200% with interruption over 1,000% of rating. **Dielectric Strength:** 1500 volts RMS. **Voltage Drop:** less than 1½ volts. **Resistance:** less than ¼ ohms. **Size:** 2×¾×1¼" **Shpg. Wt.** 2 oz.

Stock No.	Mfr's Type	Amps	EACH 1-9	10-24	25-Up
989-6116	842-201-101	1	12.65	11.89	10.37
989-6117	842-202-101	2	12.65	11.89	10.37
989-6063	109-205-101	5	10.58	6.63	5.78
989-6066	109-210-101	10	10.58	6.63	5.78
989-6069	109-215-101	15	10.58	6.63	5.78
989-6072	109-220-101	20	10.58	6.63	5.78
989-6078	109-230-101	30	10.58	6.63	5.78

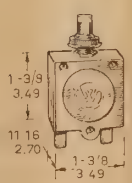
MODEL 112 TOGGLE TYPE THERMAL



Combination switch and circuit breaker for miniature applications. **Meets MIL-E-5275C** for humidity and salt spray and for AC and DC circuits. Carries 100% of rated load indefinitely, with ultimate trip at 135%. Tripping time at 200% is 8-20 seconds. Interruption capacity of 1,000 amps. For 250 VAC. 32 VDC. Size: 2×¾×1¼". Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Amps	EACH 1-9	10-24	25-Up
989-6130	112-205-101	5	11.13	7.38	6.44
989-6154	112-507-101	7 5	11.13	7.38	6.44
989-6133	112-210-101	10	11.13	7.38	6.44
989-6136	112-215-101	15	11.13	7.38	6.44
989-6139	112-220-101	20	11.13	7.38	6.44
989-6142	112-225-101	25	11.13	7.38	6.44
989-6145	112-230-101	30	11.13	7.38	6.44
989-6152	112-250-101	50	11.13	7.38	6.44

MODEL W58X FORMERLY 374/375 PUSH — TO-RESET TYPE THERMAL



Here's an economical way to get low current protection. Button extends to indicate overload. **Max. Operating Voltage:** 250 VAC and 32 VDC. Carries 100% of rated load with ultimate trip at 145%. **Tripping Time:** for 1 to 4 amps is 9-40 sec. at 200% with interruption capacity of 1,000 amps and for 5 amps and up is 5.8-40 sec. at 200% with interruption capacity of 1,000 amps. **Dielectric Strength:** over 1500 volts RMS. **Voltage Drop:** less than 1½ volts. **Size:** 1⅜x1 1/16x1⅜". **Shpg. wt.** 1½ oz.

Stock No.	Mfr's Type	Amps	EACH 1-9	10-24	25-Up
989-6486	W58XB1A4A-1	1	4.78	3.17	2.77
989-6487	W58XB1A4A-2	2	4.78	3.17	2.77
989-6488	W58XB1A4A-3	3	4.78	3.17	2.77
989-6489	W58XB1A4A-4	4	4.78	3.17	2.77
989-6490	W58XB1A4A-5	5	3.13	2.06	1.80
989-6491	W58XB1A4A-7	7	3.13	2.06	1.80
989-6492	W58XB1A4A-10	10	3.13	2.06	1.80
989-6496	W58XB1A4A-15	15	3.13	2.06	1.80
989-6501	W58XB1A4A-20	20	3.13	2.06	1.80

MODEL 507 TYPE THERMAL



For AC and DC circuits. Interruption capacity: 3500 amps. Max. operating voltages are 115V AC and 32V DC. Units carry indefinitely 115% of rated load with ultimate trip at 138%. Size: 1¾×¾×1". Shpg. wt. 10½ oz.

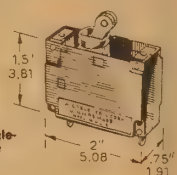
Stock No.	Mfr's Type	Amps	EACH 1-9	10-24	25-Up
989-6505	507-205-101	5	13.28	11.19	9.76
989-6507	507-210-101	10	13.28	11.19	9.76
989-6512	507-220-101	20	13.28	11.19	9.76

MINI-MAG HYDRAULIC-MAGNETIC CIRCUIT BREAKERS

Rugged construction protects to 30 amps, to 250 volts, 60Hz AC. Accurately calibrated to carry 100% of rated load and to trip at between 101% and 125% of load. Trip-timing at 200% of rated load is from 2 to 20 seconds. On heavy overloads, a spring-loaded iron piston moves instantly for immediate circuit interruption. Operation unaffected by ambient conditions. Terminals accept soldered, snap-on, crimped or screw connections. **Humidity Resistance:** per MIL-STD-202 and MIL-STD-170. **Dielectric Strength:** 1100 VDC. **Reset Time:** Instantaneous. **Voltage Drop:** 1.5V at 1A or more. **Shock and Vibration:** tested per MIL-STD-202. **Operating Temperature:** –40°C to +85°C. **Insulation Resistance:** 100 megs at 500 VDC. Fungus resistant. **Interruption Capacity:** 1,000 amps. **Shpg. Wt.** 1 oz.

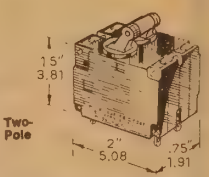
SINGLE-POLE

Stock No.	Mfr's Type	Amps	EACH 1-9	10-49	50-Up
989-6532	W67X2Q1-2-5	5	11.40	6.31	5.72
989-6537	W67X2Q1-2-10	10	11.40	6.31	5.72
989-6541	W67X2Q1-2-15	15	11.40	6.31	5.72
989-6546	W67X2Q1-2-20	20	11.40	6.31	5.72



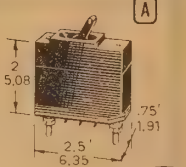
TWO-POLE

Stock No.	Mfr's Type	Amps	EACH 1-9	10-49	50-Up
989-6591	W68X2Q1-2-10	10	19.00	15.76	14.31
989-6601	W68X2Q1-2-20	20	19.00	15.76	14.31
989-6611	W68X2Q1-2-30	30	19.00	15.76	14.31



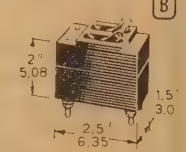
MAGNETIC TYPE CIRCUIT BREAKERS

For 60 Hz AC, up to 250 V. Will carry 100% of rated load indefinitely, with ultimate trip at 125%. Trip time 3-10 seconds at 200%. Interruption capacity, 1000 amps at 250 volts AC.



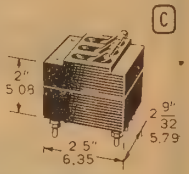
A SINGLE-POLE AC TYPE

Stock No.	Mfr's Type	Amps	EACH 1-9	10-49	50-Up
989-6180	W91X11-2-2	2	14.63	8.09	7.35
989-6181	W91X11-2-3	3	14.63	8.09	7.35
989-6183	W91X11-2-5	5	14.63	8.09	7.35
989-6188	W91X11-2-10	10	14.63	8.09	7.35
989-6193	W91X11-2-15	15	14.63	8.09	7.35
989-6198	W91X11-2-20	20	14.63	8.09	7.35



B TWO-POLE AC TYPE

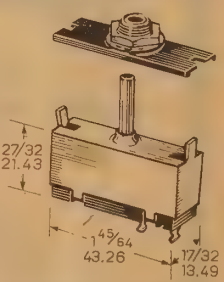
Stock No.	Mfr's Type	Amps	EACH 1-9	10-49	50-Up
989-6346	W92X11-2-10	10	24.55	20.38	18.50
989-6351	W92X11-2-15	15	24.55	20.38	18.50
989-6356	W92X11-2-20	20	24.55	20.38	18.50
989-6366	W92X11-2-30	30	24.55	20.38	18.50



C THREE-POLE AC TYPE

Stock No.	Mfr's Type	Amps	EACH 1-9	10-49	50-Up
989-6440	W93X11-2-30	30	38.50	31.95	29.00

MANUAL RESET CIRCUIT BREAKERS



- **Overload Protection Plus Temp. Compensation**

A manual reset circuit breaker for application in television receivers, audio amplifiers, business machines, vending machines and similar equipment. Current carrying capacities up to 4.14 amperes at 125V AC are available. Provides overload protection and ambient temp. compensation using separate bimetal elements for each function. Heavy-duty precious metal contacts are used throughout the range of currents. Breakers with hold current ratings of 1.2 amperes or greater are U.L. recognized for short-circuit up to 50 amperes AC. Hold current ratings of 0.65 thru 1.0 amperes are recognized for 15 ampere short-circuit current. The use of a molded phenolic base eliminates warping thereby maintaining the factory set calibration. The mechanism is protected by a plated steel cover and a "trip-free" feature prevents the contacts from being manually held closed when an overload exists. Order Adapter plate separately for wider range of mtg. applications. (See Table).

Stock No.	Mfr's Type	Cross-Reference UL	Littlefuse	Workman	Old UL No.	Amps Break	Hold	EACH 1-9	10-49	50-Up
854-8010	CBT075	0875	815.650	.....	2	.75	.49	1.93	1.28	.97
854-8020	CBT100	105	815.800	FA1	3	1.0	.65	1.93	1.28	.97
854-8030	CBT150	175	8151.25	FA1.5	12	1.5	.975	1.93	1.28	.97
854-8040	CBT175	219	81501.5	.....	4	1.75	1.14	1.65	1.10	.84
854-8050	CBT200	219	8151.75	FA2	4	2.0	1.3	1.65	1.10	.84
854-8060	CBT225	263	.....	.....	5	2.25	1.46	1.65	1.10	.84
854-8070	CBT250	263	815002	FA2.5	5	2.5	1.63	1.65	1.10	.84
854-8080	CBT275	306	8152.25	.....	6	2.75	1.79	1.65	1.10	.84
854-8090	CBT300	350	81502.7	FA3	7	3.0	1.95	1.65	1.10	.84
854-8100	CBT310	350	.....	.....	7	3.1	2.1	1.65	1.10	.84
854-8110	CBT325	350	8152.75	.....	7	3.25	2.11	1.65	1.10	.84
854-8120	CBT350	394	815003	FA3.5	8	3.50	2.2	1.65	1.10	.84
854-8130	CBT375	394	8153.25	.....	8	3.75	2.44	1.65	1.10	.84
854-8140	CBT400	438	81503.5	FA4	9	4.0	2.6	1.65	1.10	.84
854-8150	CBT450	525	815004	FA4.5	10	4.5	2.92	1.65	1.10	.84
854-8160	CBT500	613	81504.5	FA5	11	5.0	3.25	1.65	1.10	.84
854-8200	CBB	Adpt. Plate	.....	.....	..	...	....	.53	.40	.31

See Page 2 for the Allied Electronics Facility Nearest You

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CROSS-REFERENCE GUIDE OF ALLIED TYPES TO OTHER MANUFACTURERS

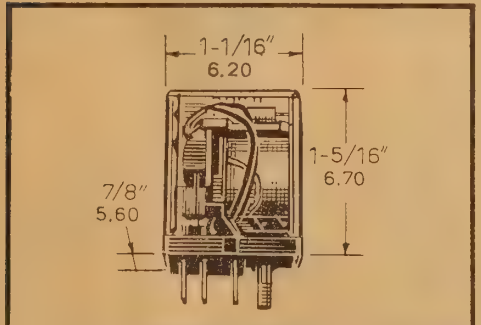
Stock No.	Allied Type	Volts	Potter Brumfield	Sigma	Magnecraft	Struthers Dunn	C.P. Clare	Cornell Dublier	Siemens
654-2000	KN522-4C	12AC	KHP/KHU17A11-12AC	67R4-12AC	W78ACSX-2	B281XDX-12A	GP1R11A1000	A104AO-12V	MAT4Z-BR
654-2010	KN522-4C	24AC	KAP/KHU17A11-24AC	67R4-24AC	W78ACSX-3	B281XDX-24A	GP1R11A2000	A104AO-24V	MAT4Z-CR
654-2020	KN522-4C	120AC	KHP/KHU17A11-120AC	67R4-120AC	W78ACSX-5	B281XDX-120A	GP1R11A6000	A104AO-115V	MAT4Z-FR
654-2030	KN522-4C	12DC	KHP/KHU17D11-12DC	67R4-12DC	W78CSX-2	B281XDX-12D	GP1R11D1000	A104DO-12V	MAT4-BR
654-2040	KN522-4C	24DC	KHP/KHU17D11-24DC	67R4-24DC	W78CSX-3	B281XDX-24D	GP1R11D2000	A104DO-24V	MAT4-CR

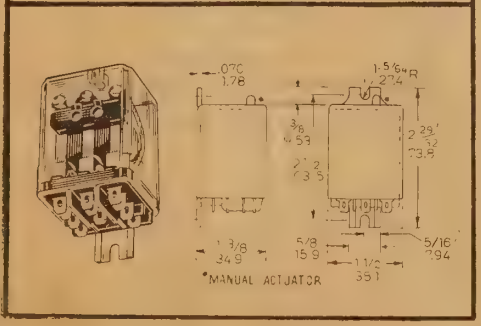
Stock No.	Allied Type	Volts	Potter Brumfield	Sigma	Magnecraft	Struthers Dunn	C.P. Clare	N.A. Phillips
654-0493	ASD-493	24AC	KUP5A55	68R14-24AC-SCO	W388ACQX-3	A283XAXC1-24AC	GP3R211NA-2000	12A21-A-24
654-0494	ASD-494	120AC	KUP5A55	68R14-120AC-SCO	W388ACQX-4	A283XAXC1-120AC	GP3R211NA-6000	12A21-A-120
654-0498	ASD-498	24DC	KUP5D55	68R14-24DC-SCO	W388CQX-3	A283XAXC1-24DC	GP3R211ND-2000	12A21-D-24
654-0502	ASD-502	12AC	KUP11A15	68RC-12AC-SCO	W388ACPX-7	A283XBXC-12AC	GP3R221AA-1000	12A12-A12
654-0503	ASD-503	24AC	KUP11A15	68R2-24AC-SCO	W388ACPX-8	A283XBXC-24AC	GP3R221AA-2000	12A12-A24
654-0504	ASD-504	120AC	KUP11A15	68R2-115AC-SCO	W388ACPX-9	A283XBXC-120AC	GP3R221AA-6000	12A12-A120
654-0507	ASD-507	12DC	KUP11D15	68R2-12DC-SCO	W388CPX-6	A283XBXC-12DC	GP3R221AD-1000	12A12-D12
654-0508	ASD-508	24DC	KUP11D15	68R2-24DC-SCO	W388CPX-7	A283XBXC-24DC	GP3R221AD-2000	12A12-D24
654-0514	ASD-514	120AC	KUP14A55	68R34-115AC-SCO	W388ACQX-14	A283XCXC1-120AC	GP3R231NA-6000	12A23-A120
654-0515	ASD-515	240AC	KUP14A55	68R34-230AC-SCO	W388ACQX-15	A283XCXC1-240AC	GP3R231NA-7000	12A23-A240
654-0517	ASD-517	12DC	KUP14D55	68R34-12DC-SCO	W388CQX-10	A383XCXC1-12DC	GP3R231ND-1000	12A23-D12
654-0518	ASD-518	24DC	KUP14D55	68R34-24DC-SCO	W388CQX-11	A283XCXC1-24DC	GP3R231ND-2000	12A23-D24

Allied® Bracket-Mount and Miniature Relays

General-purpose industrial relays designed for high reliability, excellent packaging density and best cost-to-quality relationships. 5 and 10-amp contacts for use in delicate instruments, logic circuits, as well as controlling heating elements, solenoid valves, small motors, machine tools, elevator controls, office machines, copy and vending devices. One, two, three and four-pole contact combinations are available in enclosed styles.

Clear polycarbonate covers are used. ASD types. Have 0.187" flat male terminals, quick-connect type, pierced to accommodate solder wiring and spaced for standard plug-in mounting. U.L. Recognized. Life Expectancy: 10 million mechanical operations min. (without load); 100,000 operations min. at rated load. Operating Speed: 15 milliseconds and 10 milliseconds release, cont. duty. 3 oz.





AVAILABLE ONLY IN VOLTAGES INDICATED

4PDT ENCLOSED CONSTRUCTION 5-AMP RELAYS
SOLDER TERMINALS — FITS KH SERIES SOCKETS PAGE 185

Stock No.	Allied Type No.	Volts	COIL		CONTACTS		EACH			
			Resistance (Ohms)	Current (MA)	Arrange-ment	Rating (Amps)	1-24	25-49	50-99	100-Up
654-2000	KN 522-4C-12AC	12AC	45	110	4PDT	5	7.39	7.02	6.65	5.54
654-2010	KN 522-4C-24AC	24AC	140	55	4PDT	5	7.39	7.02	6.65	5.54
654-2020	KN 522-4C-120AC	120AC	3900	11	4PDT	5	7.58	7.20	6.83	5.69
654-2030	KN 522-4C-12DC	12DC	160	75	4PDT	5	6.42	6.09	5.78	4.82
654-2040	KN 522-4C-24DC	24DC	650	37	4PDT	5	6.42	6.09	5.78	4.82

ENCLOSED CONSTRUCTION BRACKET* MOUNTED 10-AMP RELAYS

Stock No.	Allied Type No. ASD-	Voltage	Contact Action	EACH			
				1-24	25-49	50-99	100-Up
654-0493	493	24 VAC	SPDT	5.25	4.99	4.72	3.94
654-0494	494	120 VAC	SPDT	5.25	4.99	4.72	3.94
654-0498	498	24 VDC	SPDT	5.05	4.81	4.55	3.79
654-0502	502	12 VAC	DPDT	6.12	5.82	5.51	4.60
654-0503	503	24 VAC	DPDT	6.12	5.82	5.51	4.60
654-0504	504	120 VAC	DPDT	6.12	5.82	5.51	4.60
654-0507	507	12 VDC	DPDT	5.54	5.27	4.99	4.16
654-0508	508	24 VDC	DPDT	5.54	5.27	4.99	4.16
654-0514	514	120 VAC	3PDT	6.90	6.57	6.21	5.18
654-0515	515	240 VAC	3PDT	7.54	7.15	6.78	5.65
654-0517	517	12 VDC	3PDT	6.42	6.09	5.78	4.82
654-0518	518	24 VDC	3PDT	6.42	6.09	5.78	4.82

*Can be purchased without bracket min. quantity 100.

Allied® General-Purpose Relays



SPECIFICATIONS

CONTACT RATINGS: 10 Amperes at 120 Volts AC or 32 Volts DC, non-inductive loads

CONTACT MATERIAL: Silver alloy, gold-flashed

COILS: AC or DC; Nylon bobbins, sealed with a fused wrap; coil leads are braided pigtails

INSULATION: 1500 Volts RMS between circuits and between circuits and frame

LIFE EXPECTANCY: exceeds 5 million operations

MOUNTING: Open Types, single hole, tapped 6-32 stud; Enclosed Types, SPDT and DPDT, standard 8-pin octal plug; 3PDT, 11-pin plug

COLOR CODING (Enclosed Relays Only): 12 VAC, Red; 24 VAC, Green; 120 VAC, White; 12 VDC, Blue; 24 VDC, Yellow; 120 VDC, Black; PLATE CIRCUIT TYPES, Brown

- **Compare—Get Same or Better Quality at Lower Prices**
- **Color-Coding for Voltage and AC, DC, or Plate Circuit Helps on Production Line and Shows Inventory at a Glance, Enclosed Relays Only**
- **Open Types U.L. Component Program Recognized**
- **Special Price Quotations on Large-Quantity Requirements**

Allied's own relays are equally at home in the control box of an elevator or in the heart of a computer—anywhere you need light-duty power control circuits. See the Cross Reference/Interchangeability Table at bottom of page that lists the many popular types that these cost-saving relays replace *without* any sacrifice in quality or performance. All relays have Nylon bobbins, shock-resistant armature mounting and corrosion-resistant coil.

Open types are U.L. Component-Program Recognized and have 6-32 stud mounting. The 8 and 11-pin plug-in types provide protection from dust and oil, speedy plug-in connection and foolproof replacement. All enclosed relays are color-coded for voltage and AC, DC or Plate Circuit types by means of colored stamp. Shpg. wt.: Open types, 2 oz.; enclosed types, 3 oz. **NOTE: All relays ordered in multiples of 50 will generally be shipped bulk in handy production-line packaging.**

General-Purpose Open Type Relays

SINGLE POLE DOUBLE THROW TYPES (SPDT)

Stock No.	Allied Type No.	Coil Voltage /Imp.	Contact Action	Coil		EACH			
				mA	Ohms	1-9	10-49	50-499	500-Up
703-1000	KN100-1C-12A	12 AC	SPDT	170	20	6.53	4.89	3.33	2.96
703-1001	KN100-1C-24A	24 AC	SPDT	85	75	6.53	4.89	3.33	2.96
703-1002	KN100-1C-120A	120 AC	SPDT	35	1500	6.53	4.89	3.33	2.96
703-1014	KN105-1C-12D	12 DC	SPDT	80	150	6.29	4.71	3.20	2.59
703-1015	KN105-1C-24D	24 DC	SPDT	40	600	6.29	4.71	3.20	2.59

DOUBLE POLE DOUBLE THROW TYPES (DPDT)

703-1005	KN100-2C-12A	12 AC	DPDT	170	20	8.02	6.02	4.07	3.19
703-1006	KN100-2C-24A	24 AC	DPDT	85	75	8.02	6.02	4.07	3.19
703-1007	KN100-2C-120A	120 AC	DPDT	35	1500	8.02	6.02	4.07	3.19
703-1018	KN105-2C-12D	12 DC	DPDT	80	150	7.16	5.37	3.63	2.98
703-1019	KN105-2C-24D	24 DC	DPDT	40	600	7.16	5.37	3.63	2.98
703-1020	KN105-2C-120D	120 DC	DPDT	11	10000	8.36	6.37	4.24	3.37

THREE POLE DOUBLE THROW TYPES (3PDT)

703-1011	KN100-3C-120A	120 AC	3PDT	35	1500	8.89	6.22	4.50	3.70
703-1023	KN105-3C-24D	24 DC	3PDT	40	600	8.09	5.66	4.11	3.52

General-Purpose Enclosed Type Relays

SINGLE POLE DOUBLE THROW TYPES (SPDT) 8-PIN PLUG-IN

All Color-Coded for Voltage and AC, DC or Plate Circuit Types by Means of Colored Stamp

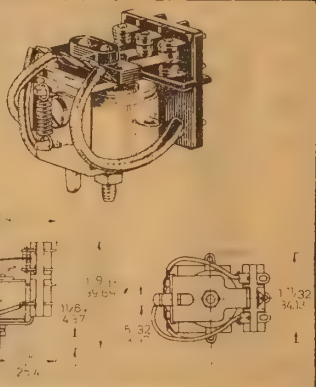
Stock No.	Allied Type No.	Coil Voltage /Imp.	Contact Action	Coil		Color Code*	EACH			
				mA	Ohms		1-9	10-49	50-499	500-Up
703-1026	KN110-1C-12A	12 AC	SPDT	170	20	Red	11.26	7.88	5.69	4.17
703-1027	KN110-1C-24A	24 AC	SPDT	85	75	Green	11.26	7.88	5.69	4.17
703-1028	KN110-1C-120A	120 AC	SPDT	35	1500	White	11.26	7.88	5.69	4.17
703-1039	KN115-1C-12D	12 DC	SPDT	80	150	Blue	11.14	7.80	5.64	3.94
703-1040	KN115-1C-24D	24 DC	SPDT	40	600	Yellow	11.14	7.80	5.64	3.94

DOUBLE POLE DOUBLE THROW TYPES (DPDT) 8-PIN PLUG-IN

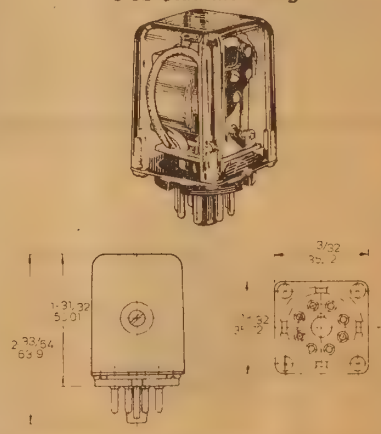
703-1031	KN110-2C-12A	12 AC	DPDT	170	20	Red	12.60	8.82	6.49	4.63
703-1032	KN110-2C-24A	24 AC	DPDT	85	75	Green	12.60	8.82	6.49	4.63
703R1033	KN110-2C-120A	120 AC	DPDT	35	1500	White	12.60	8.82	6.49	4.63
703R1043	KN115-2C-12D	12 DC	DPDT	80	150	Blue	12.51	8.75	6.46	4.55
703R1044	KN115-2C-24D	24 DC	DPDT	40	600	Yellow	12.51	8.75	6.46	4.55
703-1045	KN115-2C-120D	120 DC	DPDT	11	10000	Black	13.73	9.61	6.94	4.95
703-1048	KN115-2C-2.5K	2500 Ohms	DPDT	10	2500	Brown	12.70	8.89	6.43	4.53
703-1049	KN115-2C-5K	5000 Ohms	DPDT	7	5000	Brown	12.88	9.02	6.52	4.47
703-1050	KN115-2C-10K	10000 Ohms	DPDT	5	10000	Brown	13.83	9.54	6.91	4.95

THREE POLE DOUBLE THROW TYPES (3PDT) 11-PIN PLUG-IN

703R1035	KN110-3C-120A	120 AC	3PDT	35	1500	White	10.56	8.85	7.96	5.83
703-1053	KN115-3C-24D	24 DC	3PDT	40	600	Yellow	10.67	8.75	7.87	5.48



Open Type, Single Hole 6-32 Stud Mounting



Enclosed Type, 8 or 11-Pin, Plug Mounting

CROSS REFERENCE/INTERCHANGEABILITY GUIDE TO OTHER POPULAR MANUFACTURERS

GENERAL-PURPOSE OPEN TYPE RELAYS

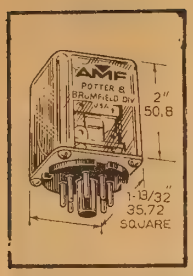
Allied	P & B	Guardian	Magnecraft	Phillips Advance	Comar	Line	Milwaukee	Omega	Ohmite
KN100	KA/KAG	IR-1200	W88AX	GHA, GHB	M	MK/MKO	100	250	GR
KN105	KA/KAG	IR-1205	W88X	GHA, GHB	M	MK/MKO	100	250	GR

GENERAL-PURPOSE ENCLOSED TYPE RELAYS

KN110	KRP/KRP-G	IR-1210	W88ACPX	GHP, GHH	M	MKH, MKP	105	200-PC	GRTP
KN115	KRP/KRP-G/KCP	IR-1215	W88CPX	GHP, GHH	M	MKH, MKP	105	200-PC	GRTP

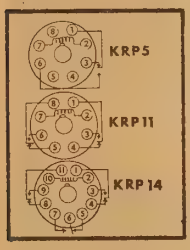
General Purpose Relays

SERIES KRP AND KRP-N ENCLOSED RELAYS



Transparent Plug-in Case—Weatherproof and Dustproof

General-purpose relays are enclosed in high-impact transparent, cellulose acetate case. Dust and weather proofed. Coil power at 25°C: DC—1.2 watts; AC—2 volt-amperes. Temperature range: —45°C minimum; AC types to +55°C maximum; DC to +70°C maximum. Operate time (approx.): 15 msec; release time: 10 msec. Life: 10 million cycles, mechanical. Insulation resistance: 1000 meg-ohms. Breakdown: 500 V rms, 60 Hz.



***KRP-N Series** includes a lamp to indicate current or voltage availability in power circuits. Lamp lights when coil is energized. Types KRP5 and KRP11 plug into standard octal socket; KRP14 plugs into 11-pin socket. Holddown springs and socket information are on page 185. Coil Data Chart at right. Size: both series, $1^{13}/_{32} \times 1^{13}/_{32} \times 2''$ (3.57x3.57x5.08cm). Av. shpg. wt. 5 oz. (140 gm). **Ask for prices in quantities of 100-Up.**

5 AMPERES

Stock No.	Mfr's Type KRP-	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0672	5A	24 AC	SPDT	10.57	8.45	8.03	7.61
886-0673	5A	120 AC	SPDT	10.57	8.45	8.03	7.61
886-0679	5D	6 DC	SPDT	10.50	8.40	7.98	7.56
866-0680	5D	12 DC	SPDT	10.50	8.40	7.98	7.56
886-0681	5D	24 DC	SPDT	10.50	8.40	7.98	7.56
886-0690	11A	6 AC	DPDT	11.88	9.50	9.03	8.55
886-0691	11A	12 AC	DPDT	11.88	9.50	9.03	8.55
886-0692	11A	24 AC	DPDT	11.88	9.50	9.03	8.55
886R0693	11A	120 AC	DPDT	11.88	9.50	9.03	8.55
886-0694	11A	240 AC	DPDT	12.63	10.10	9.60	9.09
886-0705	11D	6 DC	DPDT	11.82	9.45	8.98	8.51
886-0706	11D	12 DC	DPDT	11.82	9.45	8.98	8.51
886-0707	11D	24 DC	DPDT	11.82	9.45	8.98	8.51
886-0708	11D	110 DC	DPDT	13.00	10.40	9.88	9.36
886-0717	14A	12 AC	3PDT	14.75	11.80	11.21	10.62
886-0718	14A	24 AC	3PDT	14.75	11.80	11.21	10.62
886R0719	14A	120 AC	3PDT	14.75	11.80	11.21	10.62
886-0728	14D	6 DC	3PDT	14.63	11.70	11.12	10.53
886-0729	14D	12 DC	3PDT	14.63	11.70	11.12	10.53
886-0730	14D	24 DC	3PDT	14.63	11.70	11.12	10.53

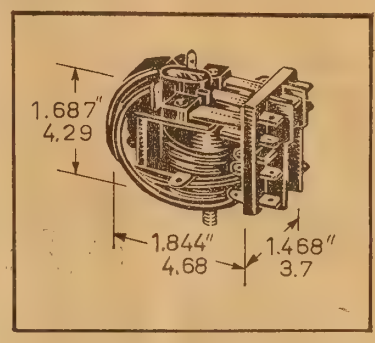
10 AMPERES

Stock No.	Mfr's Type KRP-	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0677	5AG	120 VAC	SPDT	11.00	8.80	8.36	7.92
886-0695	11AG	6 AC	DPDT	12.25	9.80	9.31	8.82
886-0696	11AG	12 AC	DPDT	12.25	9.80	9.31	8.82
886-0701	*11AN	12 AC	DPDT	14.07	11.25	10.69	10.13
886-0697	11AG	24 AC	DPDT	12.25	9.80	9.31	8.82
886-0702	*11AN	24 AC	DPDT	14.07	11.25	10.69	10.13
886R0698	11AG	120 AC	DPDT	12.25	9.80	9.31	8.82
886R0703	*11AN	120 AC	DPDT	14.07	11.25	10.69	10.13
886-0699	11AG	240 AC	DPDT	13.07	10.45	9.93	9.41
886-0704	*11AN	240 AC	DPDT	14.82	11.85	11.26	10.67
886-0709	11DG	6 DC	DPDT	12.18	9.75	9.26	8.78
886-0710	11DG	12 DC	DPDT	12.18	9.75	9.26	8.78
886-0713	*11DN	12 DC	DPDT	13.88	11.10	10.55	9.99
886-0711	11DG	24 DC	DPDT	12.18	9.75	9.26	8.78
886-0714	*11DN	24 DC	DPDT	13.88	11.10	10.55	9.99
886-0712	11DG	110 DC	DPDT	13.38	10.70	10.17	9.63
886-0715	*11DN	110 DC	DPDT	15.13	12.10	11.50	10.89
886-0722	14AG	12 AC	3PDT	15.25	12.20	11.59	10.98
886-0723	14AG	24 AC	3PDT	15.25	12.20	11.59	10.98
886R0724	14AG	120 AC	3PDT	15.25	12.20	11.59	10.98
886R0726	*14AN	120 AC	3PDT	17.07	13.65	12.97	12.29
886-0725	14AG	240 AC	3PDT	16.07	12.85	12.21	11.57
886-0736	14DG	12 DC	3PDT	15.13	12.10	11.50	10.89
886-0737	14DG	24 DC	3PDT	15.13	12.10	11.50	10.89
886-0738	14DG	110 DC	3PDT	16.25	13.00	12.35	11.70

TYPE KA OPEN RELAYS

- **Open Relays for Light Loads**
- **Life Expectancy 10 Million Mechanical Operations**
- **5 and 10 Amps. Continuous Contact Duty**
- **Suitable for Multipole Switching**
- **Available in a Variety of AC and DC Coil Voltages, Contact Arrangements and Ratings**

The KA relays are rugged, high-quality general-purpose open relays for light power loads such as small motors, solenoids and other relays and general automation work. Suitable for multipole switching. Relays are available in a wide variety of AC and DC coil voltages, contact arrangements and ratings. Moveable contacts: gold-flashed silver (10 amps, silver cadmium oxide). Stationary contacts: silver overlay. Relays with "Y" suffix are U.L. recognized and C.S.A. listed. Mechanical life expectancy: 10 million operations. Mounting: One No. 6-32 threaded stud and locating tab on .438" (1.11cm) centers. Duty: continuous contacts. Temperature range: AC —45°C minimum to +75°C maximum; DC. —45°C minimum to +85°C maximum. Insulating Material: Molded phenolic. Av. Shipping Weight: 4 oz. (113gm).



COIL DATA FOR KA, KAP AND KRP

DC COILS Volts	Res., Ohms	mA	AC COILS Volts	Res., Ohms	mA
6	32	188	6	6	335
12	120	100	12	24	168
24	472	51	24	85	84
110	10k	11.5	120	2250	17.5
...	...	....	240	9110	8.75

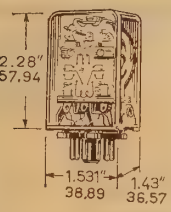
5 AMPERES

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0401	KA11AY	120 AC	DPDT	11.25	6.00	5.70	5.40
886-0402	KA11AY	240 AC	DPDT	12.20	6.50	6.18	5.85
886-0407	KA11DY	6 DC	DPDT	9.85	5.25	4.99	4.73
886-0408	KA11DY	12 DC	DPDT	9.85	5.25	4.99	4.73
886-0409	KA11DY	24 DC	DPDT	9.85	5.25	4.99	4.73
886-0419	KA14AY	120 AC	3PDT	12.85	6.70	6.37	6.03
886-0426	KA14DY	12 DC	3PDT	12.75	6.80	6.46	6.12
886-0428	KA14DY	110 DC	3PDT	13.50	7.20	6.84	6.48

10 AMPERES

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0378	KA5AG	120 AC	SPDT	9.38	5.00	4.75	4.50
886-0395	KA11AG	24 AC	DPDT	11.45	6.10	5.80	5.49
886-0396	KA11AG	120 AC	DPDT	11.45	6.10	5.80	5.49
886-0404	KA11DG	12 DC	DPDT	10.23	5.45	5.18	4.91
886-0406	KA11DG	110 DC	DPDT	11.90	6.35	6.03	5.72
886-0414	KA14AG	120 AC	3PDT	12.65	6.75	6.41	6.08
886-0423	KA14DG	24 DC	3PDT	12.38	6.60	6.27	5.94
886-0424	KA14DG	110 DC	3PDT	13.78	7.35	6.98	6.62

TYPE KAP ENCLOSED RELAYS



The KAP relay is enclosed in a transparent dust cover, with *8 or †11-pin octal type plugs for socket mounting. Available in a wide variety of AC and DC coil voltages, contact arrangements and ratings. Relays with "Y" suffix are U.L. recognized and C.S.A. listed. Mechanical life expectancy: 10 million operations. Duty: continuous contact. Temperature range: AC: —45°C minimum to +55° maximum; DC: —45°C minimum to +70°C maximum. Av. Shipping Weight: 5 oz. (142 gm). See sockets on pages 43 and 185.

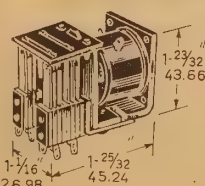
5 AMPERES

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0444	KAP11AY*	24 AC	DPDT	11.68	9.35	8.88	8.42
886-0445	KAP11AY*	120 AC	DPDT	11.68	9.35	8.88	8.42
886-0455	KAP11DY*	24 DC	DPDT	11.63	9.30	8.84	8.37
886-0465	KAP14AY†	120 AC	3PDT	14.43	11.55	10.97	10.40
886-0476	KAP14DY†	24 DC	3PDT	14.32	11.45	10.88	10.31
.....	.....	.....	....	....	....	....	....
.....	.....	.....	....	....	....	....	....

10 AMPERES

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0432	KAP5AG*	120 AC	SPDT	10.63	8.50	8.08	7.65
886-0441	KAP11AG*	24 AC	DPDT	11.88	9.50	9.03	8.55
886-0442	KAP11AG*	120 AC	DPDT	11.88	9.50	9.03	8.55
886-0450	KAP11DG*	24 DC	DPDT	11.82	9.45	8.98	8.51
886-0460	KAP14AG†	24 AC	3PDT	14.63	11.70	11.12	10.53
886-0461	KAP14AG†	120 AC	3PDT	14.63	11.70	11.12	10.53
886-0470	KAP14DG†	24 DC	3PDT	14.57	11.65	11.07	10.49

SERIES GA MULTIPLE-CONTACT RELAYS



The GA series are voltage operated relays with coils for 12 volts DC or up to 240 volts AC. For remote power switching, power control and general uses. The switching elements of these relays are designed with maximum wiping action for self-cleaning and ample over-travel for minimum contact bounce. These highly reliable relays have an expected mechanical life of more than 10 million operations for DC versions and 2 million operations for AC versions. Rating: 5 amps at 28 VDC or 120 volts AC, 60Hz resistive, Temperature range: AC, —45°C, to +45°C, DC, —45°C to +75°C. $1^{1}/_{16} \times 1^{23}/_{32} \times 1^{25}/_{32}$" (2.69×4.37×4.52 cm). Weight 4 oz. (113 gm).

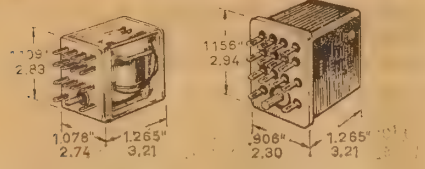
Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0181	GA11A	120 AC	DPDT	11.92	7.95	7.55	7.16

Stock No.	Mfr's Type	Coil Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0192	GA17A	120 AC	4PDT	13.88	11.10	10.55	9.99
886-0193	GA17A	240 AC	4PDT	14.00	11.20	10.64	10.08

15

General-Purpose Relays

SERIES KH MINIATURE 4PDT RELAYS



Type KHU Type KHS

SERIES KH MINIATURE 4PDT RELAYS

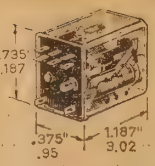
KHU has polycarbonate dust cover; **KHS**, hermetically sealed with metal cover. All models U.L. Recognized. Gold-flashed silver contacts for use with series KH sockets, rated 3 amps at 30 VDC or 120 VAC res. Solder term. KHP has 3-48 mtg. stud. 2 oz. (57 gm). KHU type replaces KHP.

COIL DATA FOR SERIES KH RELAYS

DC Coils (0.5-2 Watts)			AC Coils (1.20 VA)		
V	Resistance in Ohms ±10% @25°C	Induct. in H (approx.)	V	Resistance in Ohms ±10% @25°C	Aver. Curr. mA
6	40	.08	6	10.5	200
12	160	.28	24	160	52
24	650	1.0	120	3900	11
48	2600	4.5	....	.....	.....
110	11k	17.0	....	.....	.....

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-Up
886-0564	KHS17A11	120 AC	17.57	14.05	13.35	12.65
886-0566	KHS17D11	6 DC	16.07	12.85	12.21	11.57
886-0567	KHS17D11	12 DC	16.07	12.85	12.21	11.57
886-0568	KHS17D11	24 DC	16.07	12.85	12.21	11.57
886-0577	KHU17A11	24 AC	12.30	8.20	7.79	7.38
886-0578	KHU17A11	120 AC	12.60	8.40	7.98	7.56
886-0580	KHU17D11	6 DC	10.80	7.20	6.84	6.48
886-0581	KHU17D11	12 DC	10.80	7.20	6.84	6.48
886-0582	KHU17D11	24 DC	10.80	7.20	6.84	6.48
886-0585	KHU17D11	110 DC	12.22	8.15	7.74	7.34

R10 SERIES DC INDUSTRIAL RELAYS



• UL Recognized

Transparent enclosures. Solder terminals, for stud or plug-in mounting. Mechanical Life: 100 million operations. Contacts: 2, 4 or 6 Form C; fine silver, gold bonded. Contact Resistance: 50 milliohms maximum initially; 200 milliohms after life. Operating temperature: −55° to +72°C. Size, 1.187×.735×.375" (3.02×1.87×.9 cm) max. *Number of contacts. Wt. 1½ oz. (42.5 gm).

WITH BIFURCATED LOW LEVEL .2 AMP CONTACTS

Stock No.	Mfr's Type R10-	Coil V or mA DC	*	EACH 1-9	10-49	50-99	100-Up
886-1105	E1-Z2-V700	24 V	2	7.05	4.83	3.76	3.29

WITH SENSITIVE CURRENT ADJUSTMENT

Contacts rated 3 amps.

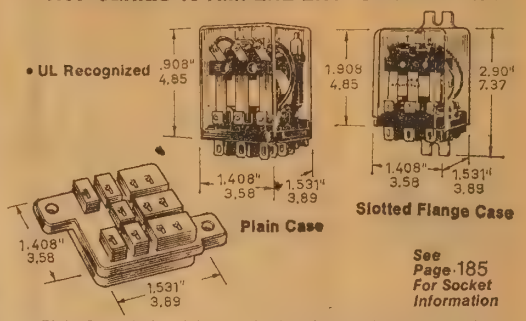
886-1070	E1-Y2-J2.5K	5.8 mA	2	6.90	4.14	3.68	3.22

R10 TELEPHONE TYPE RELAYS

Contact ratings: Y Series, 3A; X Series, 7.5A. *Number of contacts.

Stock No.	Mfr's Type R10-	Coil Volts DC	*	EACH 1-9	10-49	50-99	100-Up
886-1075	E1-Y2-V185	12V	2	6.38	3.83	3.40	2.98
886-1076	E1-Y2-V700	24V	2	6.38	3.83	3.40	2.98
886-1089	E1-Y4-V15.0K	110V	4	10.65	6.39	5.68	4.97
886-1091	E1-X2-115VAC	115VAC	2	11.70	7.02	6.24	5.46
886-1092	E1-X4-115VAC	115VAC	4	14.18	8.51	7.56	6.62
886-1095	E1-Y6-V430	24V	6	9.15	5.49	4.88	4.27
886-1050	E1-X2-V185	12V	2	6.60	3.96	3.52	3.08
886-1051	E1-X2-V700	24V	2	6.60	3.96	3.52	3.08
886-1052	E1-X4-V52	6V	4	7.43	4.46	3.96	3.47
886-1053	E1-X4-V185	12V	4	7.43	4.46	3.96	3.47
886-1054	E1-X4-V700	24V	4	7.43	4.46	3.96	3.47
886-1057	E1-X6-V430	24V	4	9.83	5.90	5.24	4.59

KUP SERIES 10-AMPERE ENCLOSED RELAYS



Plain Case Slotted Flange Case

See Page 185 For Socket Information

Plain Case. Industrial control relays for continuous operation. Silver-cadmium oxide contacts. Terminals .187" (.475 cm) quick-connect/solder style. Clear plastic dust cover. **Slotted-Flange Case.** For direct-to-chassis mtg. Slot width, .156" (.396 cm) 1.531×1.408×1.908" (3.89×3.58×4.85 cm). Wt. 3 oz. (85 gm).

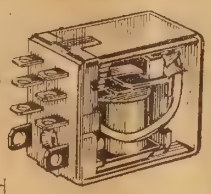
KUP SERIES WITH PLAIN CASE

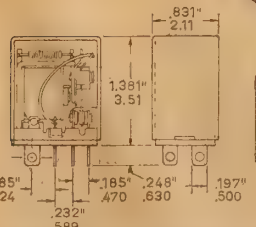
Stock No.	Mfr's Type KUP-	Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0776	5D15	24 DC	SPDT	10.03	5.35	5.08	4.82
886-0781	11A15	120 AC	DPDT	12.38	6.60	6.27	5.94
886-0782	11A15	240 AC	DPDT	13.70	7.30	6.94	6.57
886-0784	11D15	12 DC	DPDT	11.25	6.00	5.70	5.40
886-0785	11D15	24 DC	DPDT	11.25	6.00	5.70	5.40
886-0788	14A15	120 AC	3PDT	13.78	7.35	6.98	6.62
886-0791	14D15	12 DC	3PDT	12.75	6.80	6.46	6.12
886-0792	14D15	24 DC	3PDT	12.75	6.80	6.46	6.12
886-0793	14D15	110 DC	3PDT	14.25	7.60	7.22	6.84

KUP SERIES WITH SLOTTED-FLANGE

Stock No.	Mfr's Type KUP-	Volts	Action	EACH 1-9	10-24	25-49	50-Up
886-0803	14A55	120 AC	3PDT	13.98	7.45	7.08	6.71
886-0807	14D55	24 DC	3PDT	12.95	6.90	6.56	6.21

SERIES 1390 AC AND 1395 DC COMPACT DPDT 13 AMP RELAYS





Mechanical life of 100 million operations. Heat resistant dust cover of clear Lexan. Insulation resistance, 1500 megohms, min. Breakdown voltage, 500 VRMS 60 Hz between contacts; 1500 VRMS 60 Hz between contacts and field piece, contacts and coil, coil and field piece. Material, silver cadmium oxide. Rating, 13 amps at 28VDC or 120VAC resistive. With plug-in socket mtg. Wt. 1 oz. (28.35gm).

SERIES 1390 — AC

Stock No.	Coil Volt.	EACH 1-9	10-24	25-49	50-Up
802-1915	120	10.88	6.04	5.74	5.44
802-1920	24	10.30	5.72	5.43	5.15

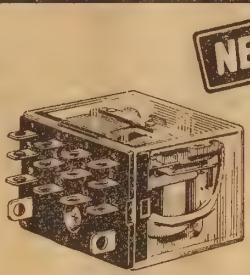
SERIES 1395 — DC RELAYS

802-1900	24	9.93	5.52	5.24	4.97
802-1905	12	9.93	5.52	5.24	4.97
802-1910	6	9.93	5.52	5.24	4.97

SOCKETS AND CLIP FOR ABOVE RELAYS

Stock No.	Mfr's Type	Desc.	EACH 1-24	25-99	100-Up
802-1931	1390-15T	Socket	1.50	.85	.71
802-1929	1390-5SM	Socket	5.18	3.45	2.93
802-1930	141-200080-00	Clip	.28	.22	.15

NEW!





4PDT, 13 AMP AC OR DC ENCLOSED RELAYS

Mechanical life: 100 million operations. Sturdy, heat resistant Lexan dust enclosure. Dual purpose type ³/₁₆" or solder lug terminals. Insulating material is molded phenolic. Breakdown voltage: 500VRMS 60 Hz between contacts: 1500VRMS 60 Hz between contacts and field piece, between contacts and coil, between coil and field piece. Rating: 13 amperes resistive at 30VDC or 120V 60 Hz; ⅓ HP at 120V 60 Hz. Temp. range: −45° to +70°C. Wt. 2.5 oz.

SERIES 1380 — AC RELAYS

Stock No.	Mfr's Type	Volt.	EACH 1-9	10-24	25-49	50-Up
802-1503	1380-4C-6A	6	12.83	9.78	9.29	8.80
802-1505	1380-4C-12A	12	12.83	9.78	9.29	8.80
802-1507	1380-4C-24A	24	12.83	9.78	9.29	8.80
802-1509	1380-4C-120A	120	13.43	10.22	9.71	9.20

SERIES 1385 — DC RELAYS

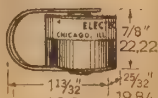
802-1512	1385-4C-6D	6	11.85	9.02	8.57	8.12
802-1514	1385-4C-12D	12	11.85	9.02	8.57	8.12
802-1516	1385-4C-24D	24	11.85	9.02	8.57	8.12
802-1518	1385-4C-110D	110	12.70	9.68	9.20	8.71

SOCKETS AND CLIP FOR ABOVE RELAYS

Stock No.	Mfr's Type	Desc.	EACH 1-24	25-99	100-Up
802-1519	1380-1ST	Socket	2.70	1.80	1.53
802-1520	1380-5SM	Socket	7.35	4.90	4.17
802-1521	141-200081-00	Clip	.28	.22	.15

LOW COST BUZZERS

ALLIED TYPE 3030 AC BUZZER

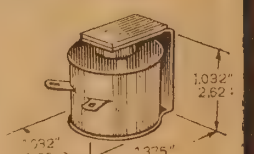


Low cost buzzer that is ideal for thermo, end-of-cycle use. 6-32 tapped mounting hole. Size, ⅞x1 13/32x25/32". Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	V AC	Coil Ohms	EACH 1-24	25-49	50-99	100-Up
703-0500	3030-1	6	13	2.16	2.05	1.94	1.51
703-0501	3030-2	12	45	2.16	2.05	1.94	1.51
703-0502	3030-3	24	150	2.16	2.05	1.94	1.51
703-0503	3030-4	120	3000	2.00	1.90	1.80	1.40

BU AC-OPERATED BUZZERS

Has AC operate coil with a spring steel armature which buzzes when coil is energized. Used extensively in applications where a small, lightweight, dependable buzzer is required. Recognized under the Component Program of Underwriters' Laboratories, Inc. Mounting: #6-32 tapped core.

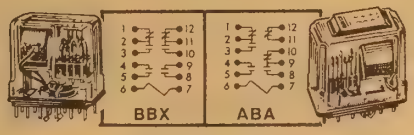


Stock No.	Mfr's Type	Volts	Ohms	EACH 1-9	10-24	25-49	50-Up
886-0042	BU-24AC	24AC	50	5.08	2.70	2.57	2.43
886R0043	BU-120AC	120AC	1250	5.08	2.70	2.57	2.43

Call Your Nearest Allied Electronics Facility for Larger Quantity Prices

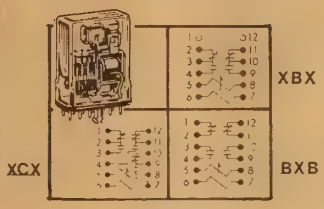
General Purpose Industrial Relays

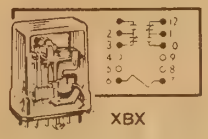
RELAYS FOR INDUSTRIAL CONTROL

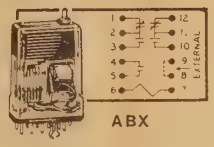


FRAME 219. Twelve pin relays offer three standard contact arrangements for signal load-switching circuits, and are designed for reliability through 20 million operations. Basic Type: Manual Actuator (M); Bifurcated contacts*. Specify coil voltage.

Stock No.	Mfr's Type	Contacts	Volts	EACH 1-9	10-24	25-49	50-Up
929-2174	219BBXP — 115AC	DPDT & 2 NO	115AC	27.60	26.71	25.37	24.04
929-2178	219BBXP — 24DC	DPDT & 2 NO	24DC	27.60	26.71	25.37	24.04
929-2179	219BBXP — 125DC	DPDT & 2 NO	115DC	27.60	26.71	25.37	24.04
929-2184	219BBXPM	DPDT & 2 NO	115AC	29.93	28.96	27.51	26.06
929-2194	219BBXP33*	DPDT & 2 NO	115AC	35.05	33.92	32.22	30.53
929-2144	219ABAP	DPDT, 1 NO, 1 NC	115AC	27.60	26.71	25.37	24.04







LATCH

FRAME A255. Relays mechanically latched, electrically-reset versions of 219 relay. 10A, 115 VAC.

SEQUENCE

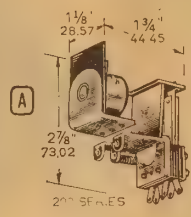
FRAME A311. Relays contain a rugged 8-tooth ratchet operating 2-contact cams. 5A, 115 VAC res.

TIME DELAY

FRAME 236. "On Delay" network energizes relay. Preset .2 to 20 sec. Adjustable.

Stock No.	Mfr's Type	Contacts	Volts	EACH 1-9	10-24	25-49	50-Up
929-2514	A255XBXP	DPDT	115AC	45.43	43.96	41.76	39.56
929-2524	A255XCXP	3PDT	115AC	49.02	47.44	45.07	42.70
929-2504	A255BXBP	2 NO & 2 NC	115AC	49.02	47.44	45.07	42.70
929-2414	236ABXP	DPDT & 1 NO	115AC	106.05	102.64	97.51	92.38
929-2124	A311XBXP	DPDT	115AC	49.65	48.05	45.65	43.25

SERIES 200 RELAY ASSEMBLIES



Interchangeable coil and contact assemblies. The coil consists of the coil and field piece; the contact assembly consists of switch blades, armature, return spring and mounting bracket. Available in SPDT, DPDT or 4PDT contact switch assemblies, each suitable for use with any AC or DC coil.

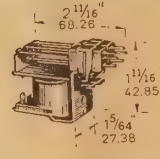
Ⓐ RELAY ASSEMBLIES

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-Up
802-1327	200-24A	24 AC	5.70	3.16	3.00	2.84
802-1333	200-120A	120 AC	6.18	3.43	3.26	3.09
802-1325	200-12D	12 DC	6.65	3.70	3.52	3.33

Ⓑ CONTACT SWITCH ASSEMBLIES

Stock No.	Mfr's Type	Contacts Action	Amps	EACH 1-9	10-24	25-49	50-Up
802-1311	200-1	SPDT	8	5.23	2.90	2.76	2.61
802-1313	200-2	DPDT	8	6.85	3.80	3.61	3.42
802-1317	200-5	4PDT	8	12.05	6.69	6.36	6.02

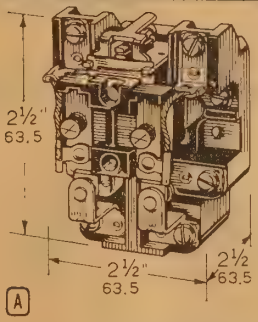
DPDT 10A RELAYS

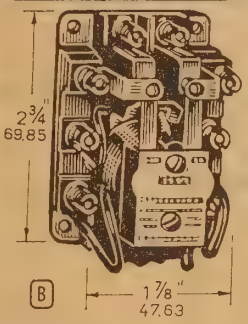


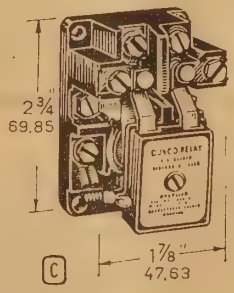
Series 900-905. Contacts are 10A at 115 volts. AC resistive. One-piece switch mounting clips, return springs, molded bobbin and coil cover. 5 oz.

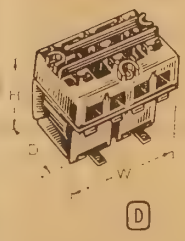
Stock No.	Coil Volts	Stock No.	Coil Volts	EACH 1-9	10-24	25-49	50-Up
802-1452	120 AC	802-1458	12 DC	5.25	2.90	2.63	2.53

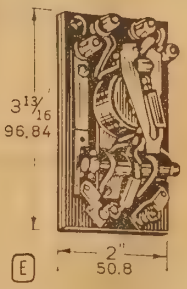
SPECIAL PURPOSE RELAYS











Ⓐ 30-AMP POWER RELAYS

Have DPST N.O., SPDT or DPDT silver cadmium-oxide contacts rated 30 A cont. at 120 VAC, 10A at 600 VAC. Front panel mounting with screw connection. AC units 10 VA; DC, 2 watts, U.L. and CSA Listed.

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-Up
DPST						
929-3024	425BXX	24 VAC	9.36	7.55	7.17	6.80
929-3120	425BXX	120 VAC	9.36	7.55	7.17	6.80
SPDT						
929-5120	425XAX	120 VAC	8.36	6.74	6.40	6.07
929-6012	425XAX	12 VDC	8.36	6.74	6.40	6.07
DPDT						
929-7120	425XBX	120 VAC	12.46	10.04	9.54	9.04
929-7240	425XBX	240 VAC	13.48	10.87	10.33	9.78

Ⓒ 415XBX SMALL POWER RELAY

For control of instruments, motors, valves, etc. DPDT SCO single break contacts. Contacts. cont. 15A @ 115VAC res.; 10A @ 230VAC. Coil 115V, 50-60 Hz.

929-2010. 1-9 ..... Ea. 15.47 10-49 ..... Ea. 14.97
50-99 ..... Ea. 13.47 100-Up ..... Ea. 11.98

Ⓑ B1XBX DPDT MIDGET RELAY

For control circuits, small motor operation, etc. Cont. res. ratings 115VAC; 6A @ 24V; 3A @ 230VAC; 0.5 @ 115 VDC. Insul. tested at 300V. Coil 115VAC.

929-0716. 1-9 ..... Ea. 29.03 10-49 ..... Ea. 28.09
50-99 ..... Ea. 25.28 100-Up ..... Ea. 22.47

Ⓓ REVERSING CONTACTORS

A275KXX. Two 3-pole contactors on common frame. interlocked to prevent simultaneous closure. 1 hp @ 120, 240, 480AC; 1, 2, 3 phase with all contact switching. 3 5/16X2 3/16X2 7/8" (84.14x 55.63x73.03 mm). U.L. Rec.; C.S.A.

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-Up
929-0550	A275KXX	24AC	25.50	24.68	22.21	19.74
929-0553	A275KXX	120AC	25.50	24.68	22.21	19.74

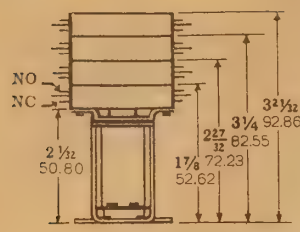
Ⓔ B11AXA RATCHET SEQUENCE RELAY

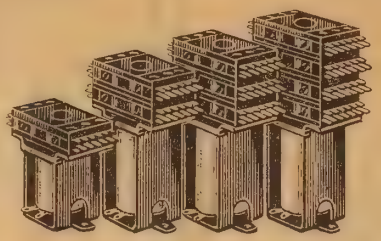
DPST cam operated contacts repeat a predetermined sequence. Contacts open and close alternately. Cont. 6A @ 115VAC or 24VDC. 0.5 @ 115 VDC. Coil 115VAC.

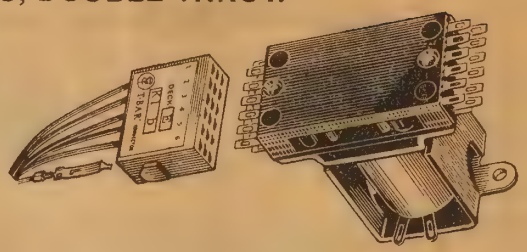
929-0719. 1-9 ..... Ea. 56.14 10-49 ..... Ea. 54.33
50-99 ..... Ea. 48.90 100-Up ..... Ea. 43.46

Multi-Pole and Power Relays

MULTI-POLE 12 TO 48 POLE RELAYS, DOUBLE THROW







TYPE 801 RELAY

- **General Purpose and Low Level**
- **12, 24, and 110 VDC**
- **Dust-Tight Enclosures**
- **Form C Contacts**

These general purpose double throw relays have gold-plated button contacts. They are ideal where large power drain would strain circuit power supplies or generate undesirable heat. Contact assemblies in dust-tight plastic enclosures 1-1/32" w. x 2⅜" lg.; ht. 13/32" per 12-pole wafer.

SERIES	Application	No. of Poles	Contact Form	Coil Type	DC Coil Voltage
801	Gen. Purpose	12 to 48	C	Continuous Duty	12, 24, 110

Contacts: Series 801: Gold plated, 5 A max. resistive to 150 W

Life: Series 801: 20,000,000 @ 100 mW; 100,000 @ 5A 28 V

Contact Resistance: 20 milliohms **Ambient Temp.** –55° to +85° C

Terminals: Mate with 88601 Connectors. Push on, or may be soldered.

Dielectric Strength: 100 V rms @ 60 cps **Insul. Res.:** 500 meg. min.

Stock No.	Mfr's Type	Coil VDC	Coil Ohms	Coil Amps	Watts @ Nom. Volts	Cont. Arr.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
774-0087	801-12C12	12	49.	.244	3.0	12PDT	28.06	24.00	22.80	21.65
774-0088	801-12C24	24	193.	.124	3.0	12PDT	24.93	21.95	20.85	19.80
774-0091	801-12C110	110	3963.	.028	3.0	12PDT	24.93	21.95	20.85	19.80
774-0097	801-24C24	24	174.	.138	3.5	24PDT	45.24	39.85	37.85	36.85
774-0100	801-24C110	110	3450.	.032	3.5	24PDT	46.58	39.85	37.85	36.85
774-0106	801-36C24	24	111.	.216	5.25	36PDT	63.26	54.10	51.40	48.85
774-0116	801-48C24	24	94	.255	6.6	48PDT	80.08	68.40	65.00	61.75

CONNECTORS AND TOOLS

Model 88601 Connector. Use in connecting wire to terminals or switches. Wires first crimped to snap-in terminal using Model 8601-51 crimping tool (see below); nylon terminal block pushes onto wafer terminals. Each connector handles 6 poles, single or double throw (18 terminals). Includes 1 connector block, 20 crimp contacts, 2 label, 1 retaining cup.

774-0195. 1-9 ..... Each 3.25 10-Up ..... Each 1.70

Model 8601-51 Crimping Tool. Adv. connectors. Crimps wire, insulation to snap-in terms.

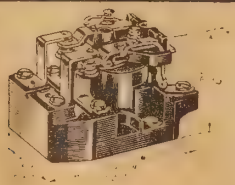
774-0190. 1-4 ..... Each 147.00 5-Up ..... Each 101.38

Model 8601-61 Extraction Tool. Removes snap-in terminal from connector block.

774-0193. 1-4 ..... Each 18.00 5-Up ..... Each 12.41

Model 8601-71 Connector Tong. Pushing on or withdrawing connectors.

774-0192 ..... Each 3.32



PRD TYPE HEAVY DUTY POWER RELAYS

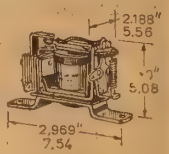
PRD relays are interchangeable with PR relays; same size and mounting holes. Improved design allows use of power screwdrivers on terminals. All models are UL and CSA listed. All have silver contacts rated 25 amps. Mounting: two .188" dia. holes on 1.875" centers. *Auxiliary switch with 5 amp contacts. Weight: 11 oz.

DC COIL Volts	DC COIL Res. in Ohms	AC COILS (50-60 Hz) Volts	AC COILS (50-60 Hz) Res. in Ohms	AC COILS (50-60 Hz) Volts	AC COILS (50-60 Hz) Res. in Ohms
12	71	6	.86	120	290
24	288	12	3.2	240	1.2K
110	6050	24	12	480	4.5K

Stock No.	Type PRD	Coil Volts	Contacts	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
886-0972	3AYO	24 AC	SPST	9.38	6.25	5.94	5.63
886-0973	3AYO	120 AC	SPST	9.38	6.25	5.94	5.63
886-0974	3AYO	240 AC	SPST	9.68	6.45	6.13	5.81
886-0982	5AYO	120 AC	SPDT	10.42	6.95	6.60	6.26
886-0983	5AYO	240 AC	SPDT	10.72	7.15	6.79	6.44
886-0985	5DYO	12 DC	SPDT	9.76	6.50	6.18	5.85
886-0986	5DYO	24 DC	SPDT	9.76	6.50	6.18	5.85
886-0990	7AYO	24 AC	DPST	11.48	7.65	7.27	6.89
886R0991	7AYO	120 AC	DPST	11.48	7.65	7.27	6.89
886-0992	7AYO	240 AC	DPST	11.78	7.85	7.46	7.07
886-0994	7DYO	12 DC	DPST	11.10	7.40	7.03	6.66
886-0995	7DYO	24 DC	DPST	11.10	7.40	7.03	6.66
886-1004	11AYO	24 AC	DPDT	13.88	9.25	8.79	8.33
886R1005	11AYO	120 AC	DPDT	13.88	9.25	8.79	8.33
886-1006	11AYO	240 AC	DPDT	14.18	9.45	8.98	8.51
886-1007	11AYO	480 AC	DPDT	18.82	12.55	11.92	11.30
886-1000	*A11AYA	120 AC	DPDT	17.43	13.95	13.25	12.56
886-1009	11DYO	12 DC	DPDT	13.50	9.00	8.55	8.10
886-1010	11DYO	24 DC	DPDT	13.50	9.00	8.55	8.10
886-1011	11DYO	110 DC	DPDT	14.78	9.85	9.36	8.87

MR MEDIUM-DUTY POWER RELAYS

Medium-duty power relays for small motors, transmitters and other applications. Contacts 7/32" diameter silver, rated 8 amps. Sizes: SP units, $1^{11}/_{16} \times 1^{11}/_{32} \times 2^{31}/_{32}$"; DP units, $2 \times 2^{3}/_{16} \times 2^{19}/_{32}$". Mounting: 9/32" diameter holes on 2¼" centers for MR11; 2⅝" center for MR5.



SPDT

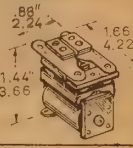
Stock No.	Mfr's Type	Coil Volts	Coil Ohms	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
886-0895	MR5A	6 AC	2.75	13.40	7.15	6.79	6.44
886-0897	MR5A	24 AC	50.0	13.40	7.15	6.79	6.44
886-0898	MR5A	120 AC	1250.0	13.40	7.15	6.79	6.44
886-0901	MR5D	12 DC	96.0	13.50	7.20	8.84	6.48

DPDT

886-0910	MR11A	120 AC	1250.0	11.82	9.45	8.98	8.51

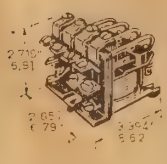
MB3D 60-AMP MINIATURE DC RELAYS

For very high current applications. Contact arms are heavy brass with large silver contacts. Solder terminals. Rated 60 amps @ 28 VDC, resistive. SPST, double break, normally open. 1⅝x2⁷/₃₂x1⅜". Mounting: Four 3-48 holes on ⅜x⅜" centers. Wt. 3 oz.



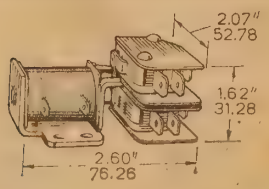
Stock No.	Coil Volts	Ohms	mA	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
886-0835	12 DC	62.3	193	15.38	12.30	11.69	11.07

PM17 4PDT 25-AMP POWER RELAYS



For polyphase and heavy-duty switching. 4PDT. Silver-cadmium-oxide contacts rated at 25 amps, 220 V, 50-60 Hz, non-inductive. 1 hp per movable arm at 120 or 240 V single-phase. U.L. Component-Program Recognized and C.S.A. Listed. Mount by keyhole and 2 channels for 8-32 screws on 2x2½" triangular centers. Screw term. $2^{45}/_{64} \times 2^{31}/_{32} \times 3^{23}/_{64}$". 1 lb.

Stock No.	Type PM-	Coil Volts	Res. in Ohms	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
886-0951	17AY	24 AC	5.0	25.07	20.05	19.05	18.05
886R0952	17AY	120 AC	120	25.07	20.05	19.05	18.05
886-0953	17AY	240 AC	587	25.18	20.15	19.14	18.14
886-0956	17DY	12 DC	33.0	21.93	17.55	16.67	15.80
886-0957	17DY	24 DC	132.0	21.93	17.55	16.67	15.80



20 AMP POWER RELAY

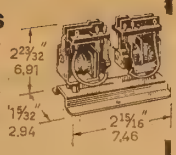
Contacts are rated 20 amps, 277VAC; 60 LRA, 12 FLA, 1 HP at 125VAC; 48 LRA, 8 FLA, 2 HP at 250VAC; pilot duty, 360VA. 125/250VAC. Life expectancy is 50,000 operations at full load; 1 million operations, mechanical. Operating temperature range is –45°C to +65°C. Mounting is by one .166" (4.21mm) diameter mounting hole and .160" (4.06mm) diameter boss. Termination is .250" (6.35mm) quick-connect. This U.L. recognized relay is for use in vending machines, washing machines, machine-tool control systems and automated conveyor systems.

Stock No.	Mfr's Type	Coil Voltage	Contacts	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
886-1290	S87R5A2B1D1	24 AC	SPDT	7.80	4.45	4.23	4.01
886-1291	S87R5A2B1D1	120 AC	SPDT	7.80	4.45	4.23	4.01
886-1292	S87R5A2B1D1	240 AC	SPDT	8.68	4.95	4.70	4.46
886-1293	S87R11A2B1D1	24 AC	DPDT	9.55	5.45	5.18	4.91
886-1294	S87R11A2B1D1	120 AC	DPDT	9.55	5.45	5.18	4.91
886-1295	S87R11A2B1D1	240 AC	DPDT	10.43	5.95	5.65	5.36
886-1296	S87R5D2B1D1	12 DC	SPDT	7.18	4.10	3.90	3.69
*886-1297	S87R5D2B1D1	24 DC	SPDT	7.18	4.10	3.90	3.69
886-1298	S87R11D2B1D1	24 DC	DPDT	8.93	5.10	4.85	4.59

See Page 2 for the Allied Electronics Facility Nearest You

Special-Purpose Relays for Industry

SERIES KB LATCHING RELAYS



4PDT relays. Contacts, 5-amp silver or 10-amp silver cadmium-oxide movables. Mounting, two 5/32" holes on 1 3/8" centers. AC 5-amp types are U.L. Component Program Recognized and C.S.A. Listed. Suffix G, 10-amp; others 5-amps. Av. shpg. wt. 7 oz.

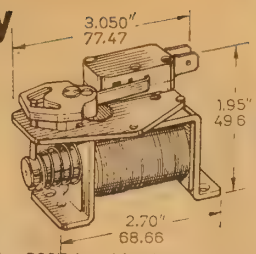
Stock No.	Type KB-	Coil Volts	Res. Ohms	EACH 1-9	10-24	25-49	50-Up
886-0487	17AY	24AC	42	19.68	15.75	14.96	14.18
886-0488	17AY	120AC	1030	19.68	15.75	14.96	14.18
886-0492	17D	24DC	230	20.43	16.35	15.53	14.72
886-0482	17AG	24AC	42	20.50	16.40	15.58	14.76
886-0483	17AG	120AC	1030	20.50	16.40	15.58	14.76
886-0496	17DG	24DC	230	20.18	16.15	15.34	14.54

KBP LATCHING PLUG-IN RELAYS



Fast acting, positive latching; for overload or memory work. Momentary impulse to one of the coils operates relay to set latch. Second pulse to other coil releases it. Enclosed in translucent polypropylene cover. Suffix G, 10 amps; others 5 amps. Type KBP17 is 4PDT. Shpg. wt. 8 oz.

Stock No.	Mfr's Type	Coil Volts	EACH 1-9	10-24	25-49	50-Up
886-0505	KBP17A	120 AC	34.75	27.80	26.41	25.02
886-0506	KBP17AG	120 AC	35.13	28.10	26.70	25.29



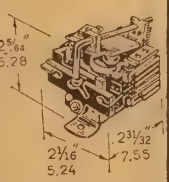
NEW!

LATCHING RELAYS

The S89R is a bistable, impulse relay that can effect a savings of power in applications where the load is on for long periods of time. Contact rating is 15 amps, ½ HP, 125/250VAC 5 amps, 125VAC inductive load; ½ amp, 125VDC; and ¼ amp, 250VDC. Life expectancy at full load is 100,000 operations minimum; 250,000 operations, mechanical. Operating temperature range is −40°C to +60°C. Mounting is by two #8-32 tapped holes on 1.844" (46.83mm) centers. Termination is .250" (6.35mm) quick connect.

Stock No.	Mfr's Type	Coil Voltage	Contacts	EACH 1-9	10-24	25-49	50-Up
886-1281	S89R5ABD1	120AC	SPDT	11.20	6.40	6.08	5.76
886-1282	S89R5ABD1	240AC	SPDT	11.48	6.55	6.22	5.90
886-1283	S89R11ABD1	24AC	DPDT	12.88	7.35	6.98	6.62
886-1284	S89R11ABD1	120AC	DPDT	12.88	7.35	6.98	6.62
886-1285	S89R5DBD1	12DC	SPDT	10.33	5.90	5.61	5.31
886-1286	S89R5DBD1	24DC	SPDT	10.33	5.90	5.61	5.31
886-1287	S89R11DBD1	12DC	DPDT	12.00	6.85	6.51	6.17
886-1288	S89R11DBD1	24DC	DPDT	12.00	6.85	6.51	6.17

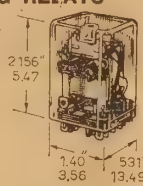
PC 5-AMP IMPULSE RELAYS



Armature and pusher assembly operate phenolic rocker switching from one contact pole to the other on alternate pulses. For on-off or reversing. Pulses may be as short as 60 milliseconds at 5 Hz. Gold-flashed silver cadmium-oxide contacts rated 5 amps at 120 volts AC, resistive load. AC coils are for 50-60 Hz. Mounting two 9/32" holes on 2 5/8" ctrs. Size, 2 1/16×2 31/32×2 5/64". 5 oz.

Stock No.	Mfr's Type	Coil Volts	Ohms	EACH 1-9	10-24	25-49	50-Up
886-0937	PC11A	24AC	8.8	18.25	14.60	13.87	13.14
886-0938	PC11A	120AC	240.0	18.25	14.60	13.87	13.14
886-0940	PC11D	12DC	15.5	17.63	14.10	13.40	12.69

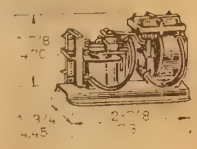
KUL MAGNETIC LATCHING RELAYS



Continuous duty single coil types. Uses a permanent magnet in parallel with normal magnetic circuit, requires only half the space of mechanical interlock types. Continuous latch condition even during loss of power. Contacts rated 10 amps at 28 VDC or 120 VAC, 80% power factor. Temp. range, —45° to 75°C. All are DPDT. Av. wt. 3½ oz.

Stock No.	Type KUL-	Coil V	Coil Ohms	EACH 1-9	10-24	25-49	50-Up
886-0763	11A15S	120AC	3700	12.88	10.30	9.79	9.27
886-0766	11D15S	24DC	472	10.09	8.05	7.65	7.25

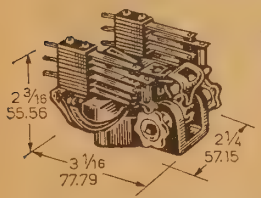
4PDT, 10 AMP AC RELAY



Two interlocking 1200 AC relays mounted on a sturdy metal frame bracket. These relays maintain circuits continuously without coil power consumption. Relays are electric-pulse-operated with mechanical hold and electrical release. Rated for 10 amps non-inductive load at 60 Hz, 120 volts only. Coil resistance: 1,100 ohms Dimensions: 1 7/8×1 3/4×2 7/8". Shipping weight: 5.5 ounces.

Stock No.	Mfr's Type IR-	EACH 1-9	10-24	25-49	50-Up
802-0285	1200/1200-4C	18.65	15.54	14.76	13.99

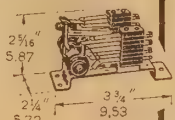
660 IMPULSE RATCHET RELAYS



For on/off control of lighting, motors, etc. Life expectancy over 1,000,000 steps. Each impulse reverses contacts. Up to 10 steps per second possible. Heavy-duty silver contacts rated 15 amperes at 115 V, 60 Hz AC resistive. Size, 2 1/16×3×1 3/4". Av. shpg. wt. 8 oz.

Stock No.	Type and Coil Voltage	Action	EACH 1-9	10-24	25-49	50-Up
802-1410	660-C-24AC	SPDT	12.25	10.21	9.70	9.19
802-1414	660-C-120AC	SPDT	12.25	10.21	9.70	9.19
802-1418	660-2C-120AC	DPDT	13.23	11.03	10.48	9.93
802-1422	660-4C-120AC	4PDT	19.27	16.06	15.26	14.45

AP 5-AMP RATCHET IMPULSE RELAYS

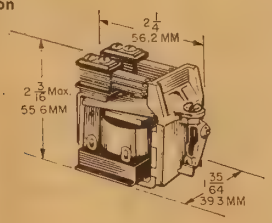


On-off or reversing action on alternate impulses. Stop mechanism. Intermittent duty. DPDT except *4PDT. Contacts 3/16" fine silver, rated 5 A at 120 V, 60 Hz. Tinned solder term. Mtg.: three 5/32" dia. holes on 3 3/8×7/8" triangular cuts. 2 5/16×2 1/4×3 3/4". Av. 9 oz.

Stock No.	Mfr's Type	Coil Volts	Ohms	EACH 1-9	10-24	25-49	50-Up
886-0029	AP11A	120AC	240	27.25	21.80	20.71	19.62
886-0035	AP17A*	120AC	240	36.93	29.55	28.07	26.60
886-0036	AP17D*	12DC	15.5	35.57	28.45	27.03	25.61

840LS MIDGET LATCHING RELAYS

- Positive On-Off Control for Use In Industry
- Single-Coil Construction

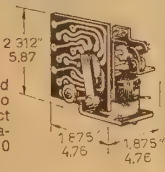


Single-coil construction. Designed for positive on-off control of positioning devices, remote controls, lighting circuits and similar industrial applications. Contacts are rated 5 amperes.

Contacts hold in the last position of switch when coil is de-energized. For 115 V, 60 Hz AC. Size, 1 5/8×1 1/8×2 1/16". Shpg. wt. 4 oz.

Stock No.	Type 840-LS	Action	EACH 1-9	10-24	25-49	50-Up
802-0277	C-120A	SPDT	11.00	7.64	7.26	6.88
802-0278	2C-120A	DPDT	13.26	9.21	8.75	8.29

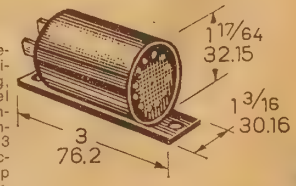
GM IMPULSE/SEQUENCING RELAYS



With PC Boards. Uni-directional PC board with up to 12 steps. Board is attached to extension of ratchet shaft; movable contact arm advances one position each time armature drops out. *Coil voltage: 120 AC; 510 ohms. Contact rating, ¼ amp. 5 oz.

Stock No.	Mfr's Type	Action	EACH 1-9	10-24	25-49	50-Up
886-0220	GM1N10A	10-step*	23.88	19.10	18.15	17.19
886-0222	GM1N12A	12-step*	23.18	18.55	17.62	16.20

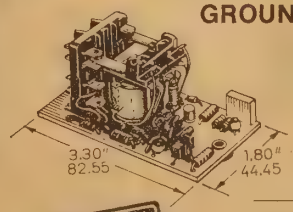
ROTOMITE DC STEPPING RELAYS



Small size makes these relays suitable for use in business machines, vending, counting, sorting, model trains, etc. Completely enclosed. 12 positions. Contact ratings at 115 V, 60 Hz: 3 amps resistive, 1 amp inductive; rotate continuously up to 20 steps per second. Expected life over 1 million operations. 5 oz.

Stock No.	Type IR-705-	V DC	EACH 1-9	10-24	25-49	50-Up
802-0267	12P-12D	12	12.88	10.73	10.19	9.66
802-0269	12P-24D	24	12.88	10.73	10.19	9.66

GROUND LINE INTEGRITY MONITOR



NEW!

Model CZS-01 is intended to detect inordinate ground-leakage currents from motors and other equipment. Should such currents develop, the CSA-01 automatically disconnects the motor or equipment from line voltage. The CZS-01 is particularly useful in equipment that must adhere to specification requirements of UL-544. Specifications: Contact Arrangement: DPDT. Ground Line Current: 10 microamps maximum. Input Voltage: 120VAC, 240VAC (single phase). Operating Temperature: 0°C to +55°C. Termination: .187" (4.76mm) quick connect and solder lugs. 50/60 Hz.

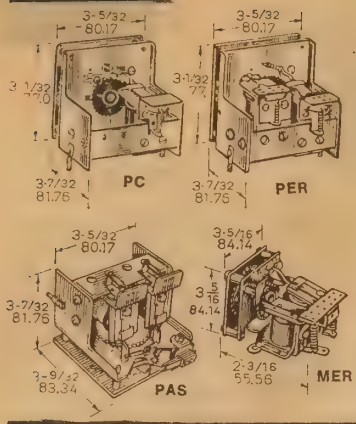
Stock No.	Mfr's Type	Line Voltage	Contact Rating	EACH 1-4	5-9	10-24	25-Up
886-0170	CZS-01-70000	120	10A@120V	40.43	32.35	30.73	29.12
886-0171	CZS-01-80000*	240	10A@240V	31.18	40.95	38.90	36.86
886-0172	CZS-01-70001	120	15A@120V	41.68	33.35	31.68	30.02
886-0173	CZS-01-80001*	240	15A@240V	34.63	43.70	41.52	39.33

*Single phase only.

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Stepping, Sensitive and Coaxial Relays

AC AND DC STEPPING RELAYS



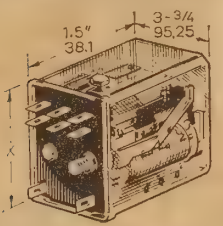
Specially designed stepping relays for accurate sequence selecting, pulse multiplying/dividing, circuit selecting, automatic/remote homing, counting and latching. All are 120 VAC except for §24 VDC type. All are direct drive units with switching completed on energization. Bridging contacts are rated at 1½ amperes, 115 volts 60 Hz noninductive load. All are rated at 10% duty cycle out of each hour; maximum single period, 5 minutes. Will operate at 15% below or 10% above rated voltage. PC and MC are continuous-rotation types, constructed with micro-finished shaft and oilite shaft bearings. PER and MER are electrical-reset types, with steel box-type frame. PAS is bidirectional stepper. Wt., 2 lbs.

*Active contacts, including zero position.

STOCK No.	Mfr's Type	No. Points	*	SIZE (HxWxD) Inches	EACH 1-9	10-24	25-49	50-Up
802-0060	PC	40	40	3 1/32x3 9/32x3 3/8	40.80	34.00	32.30	30.60
802-0053	MC	24	24	2 3/16x3x3 1/4	30.20	25.17	23.91	22.65
802-0063	PER	40	36	3 9/16x3 3/32x3	53.70	44.75	42.51	40.28
802-0057	PAS	40	40	3 9/16x3 3/32x3 1/4	56.43	47.03	44.68	42.33
802-0457	MER	24	22	2 9/16x3 5/16x2 9/16	34.75	28.96	27.51	26.06
802-0455	§MER	24	22	2 9/16x3 5/16x2 9/16	34.75	28.96	27.51	26.06

R10S SERIES CMOS — TTL COMPATIBLE RELAYS

Will accept drive directly from many CMOS and TTL ICS—no interface needed. Contacts are .017" in dia., made of gold diffused fine silver. **Resistive Load Rating:** 28 VDC or 115 VAC from .01 to 2 A max. **Insulation Resistance:** 10,000 meg. each 25°C and 50% R.H. **Typical Capacitance:** Contact-contact, 2 picofarads; Coil-frame, 30 picofarads; Coil-contacts, 2 picofarads. **Temp. Range:** –55°C to 75°C. **Vibration:** 0.06" D.A., 5 to 55. Has pierced solder terminals. **Wt.** 0.8 to 1.4 oz.



X = .950"–1.95 (2PDT)
1.165"–2.96 (4PDT)

Stock No.	Mfr's Type	Coils Input	Coils Res. In Ohms	Coils Nom Power	Contacts Arrang.	Contacts Amps Typ. (Max.)	EACH 1-9	10-49	50-99	100-Up
R10S-E1-Y1-J										
886-1160		–1.0K	3.2mA	1000 10mW	SPDT	2(3)	7.20	4.32	3.84	3.36
886-1162		–2.5K	2.0mA	2500 10mW	SPDT	2(3)	7.20	4.32	3.84	3.36
886-1164		–5.0K	1.4mA	5000 10mW	SPDT	2(3)	8.85	5.31	4.72	4.13
R10S-E1-Y2-J										
886-1166		–1.0K	4.5mA	1000 20mW	2PDT	2(3)	8.40	5.04	4.48	3.92
886-1168		2.5K	2.4mA	2500 20mW	2PDT	2(3)	8.40	5.04	4.48	3.92
886-1170		–5.0K	2.0mA	5000 20mW	2PDT	2(3)	10.05	6.03	5.36	4.69
R10S-E1-Y4-J										
886-1172		–1.0K	6.5mA	1000 40mW	4PDT	2(3)	9.18	5.40	4.80	4.20

KCP ENCLOSED SENSITIVE 2-AMP RELAYS

DC sensitive relays are enclosed in a high impact weatherproof case of transparent polycarbonate. Sensitivity 125 mw single pole; 250 mw double pole. Mounting: standard octal plug-in type. Gold flashed silver contacts rated at 2 amps at 30V DC to 120V AC, resistive. See index for sockets. Shipping weight 4 oz. (113 gm).

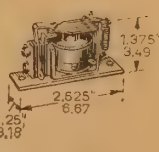


Stock No.	Mfr's Type	Ohms	Action	EACH 1-9	10-24	25-49	50-Up
886-0528	KCP11	2500	DPDT	12.13	9.70	9.22	8.73
886-0529	KCP11	5000	DPDT	12.32	9.85	9.36	8.87
886-0530	KCP11	10,000	DPDT	13.18	10.55	10.22	9.50

Resist. (Ohms)	Single Pole Pull-in	Single Pole Sens.	Double Pole Pull-in	Double Pole Sens.
2500	7.2 mA	125 mW	10.0 mA	250 mW
5000	5.0 mA	125 mW	7.2 mA	250 mW
10,000	.....	.....	5.0 mA	250 mW

ALLIED ELECTRONICS HAS THE RELAYS TO SUIT YOUR NEEDS

LB-5 SENSITIVE 5-AMPERE RELAYS



For any circuit supplying as little as 200 milliwatts of DC. Breakdown, 500 V rms. Contacts: 5 amps, @ 28 VDC or 120 VAC res., SPDT action. DC input only. Mounting, two 3/16" (.476 cm) holes on 2 7/32" (5.64 cm) centers. Shpg. wt. 3 oz. (85 gm).

Stock No.	Ohms	mA	EACH 1-9	10-24	25-49	50-Up
886-0815	2500	9	11.63	6.20	5.89	5.58
886-0816	5000	6.3	12.58	6.70	6.37	6.03
886-0817	10,000	4.5	13.50	7.20	6.84	6.48

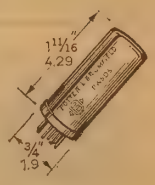
RS5D SENSITIVE 2-AMP RELAYS



Sensitivity, 60 mW. Operate, 25 ms; release, less than 5 ms. SPDT contacts rated 2 amps. Size, .938x1x1.172" (2.38x2.54x2.54 cm). Shpg. wt. 2 oz. (57 gm). *mA.

Stock No.	Ohms	Input	EACH 1-9	10-24	25-49	50-Up
886-1275	335	6V	14.64	7.65	7.27	6.89
886-1276	1350	12V	14.64	7.65	7.27	6.89
886-1279	10k	2.5*	15.17	8.80	8.36	7.92

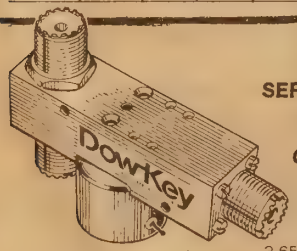
PW HERMETICALLY SEALED 1-AMP RELAYS

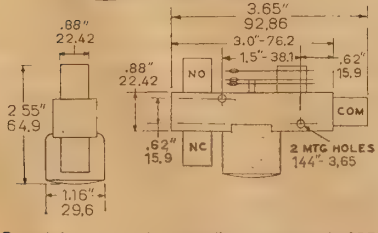


Current-actuated DC relays. Mounts in 7-pin miniature tube socket. Silver contacts rated 2 A @ 28 VDC or 120 VAC res. 49/64" dia.; 1 11/16" high (1.9 cm dia., 4.29 cm high), 2 oz. (57 gm).

Stock No.	Mfr's Type	VDC	Ohms	EACH 1-9	10-24	25-49	50-Up
886-1025	PW5LS	2.8	5000	32.00	25.60	24.32	23.04

SERIES 60 SPDT REMOTE COAXIAL RELAY

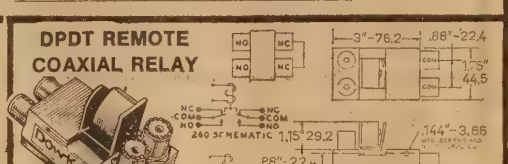




Remotely operated, ruggedly constructed, SPDT coaxial relays for operation to one kW. Specifications following for use in a 50-ohm transmission line. UHF connectors not recommended above 400 MHz. Operating time, 25 ms. max. Gold plated silver contacts. °Has two Form C 5A, 115VAC auxiliary contacts. † Has 2C aux. plus high-isolation "G" connector at the NC or receive position, for transmit-receive applications. "G" connector increases the isolation to greater than –100 dB at frequencies up to 500 MHz, but reduces power rating of the NC connector to 20 watts.

Stock No.	Mfr's Type	Coil V	EACH 1-4	5-9	10-Up
771-6711	60-2604	115AC	45.75	41.17	32.93
771-6722	60-260442*	115AC	50.67	45.60	36.48
771-6717	60-222842†	12DC	50.67	45.60	36.48

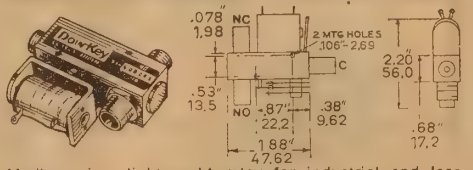
DPDT REMOTE COAXIAL RELAY



Series 260. Remote operation, ruggedly constructed coaxial relay designed for use from low level to one kilowatt. The 260 is a standard DPDT switch with six connectors. Specifications: Operating time, 25 ms. Life expectancy, 1,000,000 cycles. Contacts, gold-plated fine silver. UHF connector type. Weight, 12 oz.

Stock No.	Mfr's Type	Coil V	EACH 1-4	5-9	10-Up
771-6782	260-2604	115AC	79.50	71.55	57.24

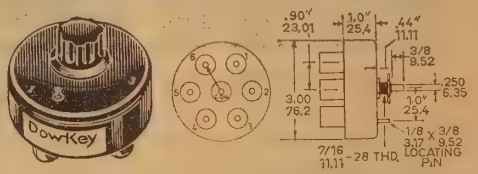
SERIES 77 SPDT REMOTE COAXIAL RELAY



Medium size, lightweight relay for industrial and less critical military applications. The "T" shaped connector configuration has the common connector at one end and the NO and NC connectors 180° apart at the other end. With one set of Form C auxiliary contacts. Operating time, 15 ms. max. BNC connector type. Gold plated silver contacts. Weight, 3 oz.

Stock No.	Mfr's Type	Coil V	EACH 1-4	5-9	10-Up
771-6742	77-230232	26DC	42.42	38.18	30.54

SERIES 78 MULTI-POSITION COAXIAL SWITCH



Manually operated switches using coaxial switching members rather than wafer switches. The unused connectors are of the open, non-shorting type. Mounting: Clearance hole for 7/16 thread and 3/4 hole for locating pin. With mounting nut, lockwasher, knob, escutcheon plate. Gold plated silver contacts. Life expectancy, 100,000 cycles min. Silver plated connectors. Weight, 10 oz.

CONNECTOR LOCATIONS VS. FUNCTION

Function	Connector Location
1P3T	1, 3, 5 and C
1P6T	1, 2, 3, 4, 5, 6 and C

1P3T SWITCH WITH UHF CONNECTOR

Stock No.	Mfr's Type	EACH 1-4	5-9	10-Up
771-6756	78-0304	48.25	43.43	34.74

1P6T SWITCH WITH UHF CONNECTOR

Stock No.	Mfr's Type	EACH 1-4	5-9	10-Up
771-6761	78-0604	53.92	48.53	38.82

1P6T SWITCH WITH BNC CONNECTOR

Stock No.	Mfr's Type	EACH 1-4	5-9	10-Up
771-6759	78-0602	61.42	55.28	44.22

Reed and Proximity Switches

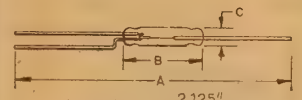
REED SWITCHES

DRY AND MERCURY-WETTED TYPE REED SWITCHES

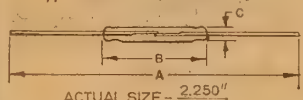
Precision crafted for reliable operation under the most critical conditions. Offer excellent flexibility in a broad range of applications. Hermetically sealed for safe, dependable use in any atmosphere—even under explosive conditions.

Unaffected by high or low temperature extremes or pressure. Compact size with high sensitivity and rapid cycling rate. Excellent for use in position indicators, counting instruments, limiting switches, flow meters, communications instruments and reed relays. Actuating time: 1 millisecond or less.

Dry reed switches have life expectancy of 50 million operations, mercury-wetted switches 1 billion operations. Contacts: Form A (SPST-N.O.) or C (SPDT). May be actuated by permanent or electro magnets. Permanent magnets sold **below** Av. shpg. wt., 1 oz. each.

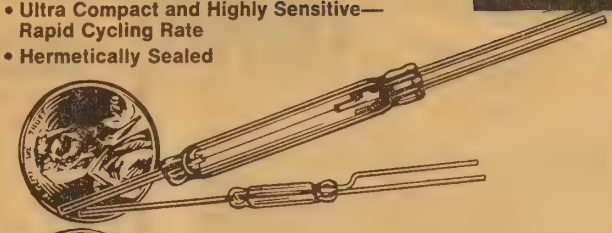


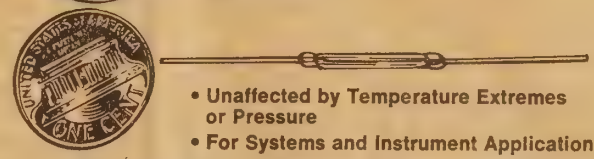
ACTUAL SIZE – 2.125" / 53.98
Type MRG-DT—SPDT Form C



ACTUAL SIZE – 2.250" / 63.50
Type MRR-2 –SPST Form A

- **Ultra Compact and Highly Sensitive—Rapid Cycling Rate**
- **Hermetically Sealed**





- **Unaffected by Temperature Extremes or Pressure**
- **For Systems and Instrument Applications**

MINIATURE MAGNETIC REED SWITCHES

MRR-2-185: Rhodium contacts, mini. form A; **MARC-2-186:** Economy Form A.

Stock No.	Mfr's Type	Size Code	Form	Max. DC Contact Ratings, W	Max. Amps	Max. DC Volts	Min. VDC Breakdown	Stock Ampere Turn Pull-in	Actuating Magnet	EACH 1-9	EACH 10-24	EACH 25-Up
807R0030	MRR-2-185	6	A	10	.500	200	300	30±7.5	H-33	1.56	1.20	.96
807-0064	MARC-2-186	10	A	10	.500	100	300	30±10	H-33	1.05	.95	.75

SUB-MINIATURE MAGNETIC REED SWITCH

MSRR-2-185: Rhodium contacts, submini. form A;

807R0037	MSRR-2-185	5	A	10	.500	200	300	30±7.5	H-33	1.50	1.15	.95

TINY MAGNETIC REED SWITCHES

MRG-DT-175: Mini form C; **MLC-DT-186:** Economy Form C.

807-0025	MRG-DT-175	4	C	3	.250	28	250	27.5±7.5	H-33	4.30	3.45	2.75
807-0065	MLC-DT-186	4	C	3	.250	28	250	30±10	H-33	3.00	2.40	1.90

MICRO AND MINI MAGNETIC REED SWITCHES

MMRR-2-185: Smallest off-ctr. gap switch; **MINI-25-115:** Smallest ctr. gap switch.

807-0022	MMRR-2-185	1	A	3	.010	28	250	30±7.5	H-31	2.83	2.25	1.80
807-0020	MINI-25-115	2	A	3	.110	28	200	30±7.5	H-31	1.83	1.45	1.15

STANDARD MAGNETIC REED SWITCHES

DRR-1-425: Rhodium contacts, std. form A; **DRR-5-425:** Hi breakdown voltages; **DRT-5-425:** Inductive loads.

807-0014	DRR-1-425	8	A	15	1.0	400	500	70±7.5	H-34	1.75	1.40	1.12
807-0015	DRR-5-425	8	A	25	1.0	1000	1500	70±7.5	H-34	3.30	2.65	2.11
807-0018	DRT-5-425	8	A	50	3.0	1000	1500	70±7.5	H-34	6.00	4.80	3.84

COMPACT MAGNETIC REED SWITCHES

DRR-DTH-445: Hi breakdown voltage; **DRT-DTH-445:** Inductive loads; **DLC-DT-327:** Economy Form C.

Stock No.	Mfr's Type	Size Code	Form	Max. DC Contact Ratings, W	Max. Amps	Max. DC Volts	Min. VDC Breakdown	Stock Ampere Turn Pull-in	Actuating Magnet	EACH 1-9	EACH 10-24	EACH 25-Up
807-0006	DRR-DTH-445	7	C	10	.5	250	1000	72.5 7.5	H-32	2.83	2.25	1.80
807-0007	DRT-DTH-445	7	C	20	1.5	500	1000	72.5 7.5	H-32	6.13	4.90	3.90
807-0063	DLC-DT-327	7	C	10	.5	200	350	5515	H-32	2.35	1.90	1.50

HIGH CURRENT MAGNETIC REED SWITCH

SRT-2-455: Power switch, 1 amp;

807-0070	SRT-2-455	9	A	100	1.0	28	300	75±7.5	H-32	4.15	3.30	2.65

HIGH-VOLTAGE MAGNETIC REED SWITCH

High breakdown voltage. **DRVT-10-658,** 10 KVDC;

807-0009	DRVT-10-658	8	A	50	3.0	7500	10000	120±20	H-34	8.75	5.00	4.50

MERCURY-WETTED MAGNETIC REED SWITCH

Replaces MRC and HRC types.

807-0080	MDC-1-387	6	A	50	2	100	1000	65±15	H-33	4.70	3.75	3.00

DIMENSION CHART FOR SWITCHES

Size Code	1	2	4	5	6	7	8	9	10
(A) Overall L. Nom.	2.000" 50.8mm	1.235" 31.36mm	2.125" 53.97mm	2.250" 57.15mm	2.250" 57.15mm	3.375" 85.72mm	3.125" 78.47mm	3.465" 88.01mm	2.250" 57.15mm
(B) Glass L. Max.	.375" 9.52mm	.500" 12.70mm	.610" 15.49mm	.800" 20.32mm	.800" 20.32mm	1.562" 39.67mm	2.100" 53.34mm	1.640" 41.65mm	.800" 20.32mm
(C) Glass Dia. Max.	.090" 2.28mm	.070" 1.77mm	.130" 3.30mm	.090" 2.28mm	.130" 3.30mm	.218" 5.53mm	.218" 5.53mm	.212" 5.38mm	.105" 2.66mm

MAGNETS FOR ABOVE SWITCHES

These quality magnets are for all the reed switches on this page. Select the reed switches you want from above and the magnets to go with them at right.

Stock No.	Mfr's Type	Size Inches	Size Millimeters	EACH 1-9	EACH 10-Up
807-0001	H-31-604	1/16x1/16x1/2	0.39x0.39x0.50	.50	.30
807-0002	H-32-605	3/16x3/16x1	4.76x4.76x25.4	.63	.35
807R0003	H-33-606	1/8x1/8x3/4	3.17x3.17x19.05	.50	.30
807R0004	H-34-607	1/4x1/4x1	6.35x6.35x25.4	.75	.40



NEW!

PROXIMITY SWITCHES

A permanent magnet is the actuating mechanism for these sensors. By bringing the sensor and magnetic actuator to within a specific proximity of each other switch closure is accomplished. When the magnetic actuator is close enough the normally open contacts will close. When the magnetic field is removed the contacts will open. Applies to types 5801, 5802, 5901 and 5804.

SPST REED PROXIMITY SWITCH

Stock No.	Mfr's Type	Curr. Max. Amp	Rating VAC †	Block V peak	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
807-5901	5901	1½*	120-240	400	10.38	7.75	7.00	6.20

FERROUS OPERATED (SELF-CONTAINED) PROXIMITY SWITCHES

807-5401	5401	1½*	120	200	17.50	9.75	9.50	9.25
807-5403	5403	1½*	120	200	17.50	9.75	9.50	9.25

*At 25°C — peak single cycle surge (non-repetitive) — 15 amps. †50-60 Hz.

SPST R⅜⅜D PROXIMITY SWITCH

Stock No.	Mfr's Type	Cont. Max. W	SW. VDC Max.	Curr. Max. Amp	Bkdn. VDC, Min.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
807-5801	5801	10	200	.500	400	5.00	3.75	3.40	3.00

SPDT REED PROXIMITY SWITCH

807-5802	5802	3	28	.250	200	10.38	7.75	7.00	6.20

ECONOMY MODEL SPST

807-5804	5804	10	100 120*	.500	250	2.00	1.45	1.30	1.15

*AC Rating.

MAGNETIC ACTUATOR

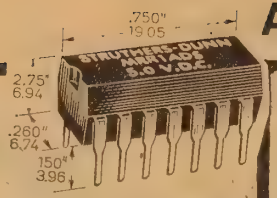
Stock No.	Mfr's Type	Oper. Dist.	Differential	Rel. Dist.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
807-5701	5701*	To 5/8"	1/8"-1/4"	9/16"-13/16" ‡	2.75	2.00	1.80	1.60
807-5805	5805**	To 29/32"	1/32"-7/16"	39/64"-1"	1.63	1.20	1.10	.95

*For use with 5801, 5802 and 5901 proximity switches, **For use with 5804 proximity switch. ‡Head-on Mode.

15

AC Controller, and Reed Relays

DUAL INLINE MINIATURE REED RELAYS



DIP dry reed relays are specifically designed for the same mounting as standard 14-pin dual-in-line integrated circuit sockets. Standard contact configurations are one Form A (1A=SPST-NO), two Form A (2A=DPST-NC) and one Form C (1C=SPDT). Operate time: 1 ms. maximum (2 ms. for 1C). Ambient Temperature: −10 to +70°C (1ADSR= −10 to +25°C). Life: 5 million maximum rating, 10 million ½ maximum rating, 20 million dry circuit. Cont. VA:* .10, †3.

Stock No.	Mfr's Type	Nom. V	Res. Ohms	Power mW	Contacts	EACH 1-9	EACH 10-Up
929-3785	MRR1ADSR	5	500	50	1A*	6.42	4.14
929-3782	MRR1ADS	5	360	70	1A†	5.50	3.54
929-3777	MRR1ADS	12	1440	100	1A†	5.50	3.54
929-3773	MRR1CDL	5	100	250	1C†	10.99	7.09
929-3775	MRR1CDL	12	500	285	1C†	10.99	7.09
929-3778	MRR2ADLX	5	125	200	2A*	9.16	5.91
929-3780	MRR2ADLX	12	500	295	2A*	9.16	5.91

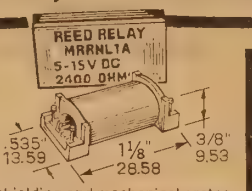
SPDT MERCURY WETTED REED RELAYS



Series W133 MPC. 50 VA at up to 400 VAC resistive. Operate time, 2 milliseconds average. Operates upright or up to 30° from vertical. Life expectancy more than 25 million operations. 50 milliohm contact resistance. Snap-on steel enclosure. Printed circuit pins on 0.2" grid. $2^5/_8$ x $4^{11}/_{64}$ x $^3/_4$", 4 oz.

Stock No.	Mfr's Type W133	Coil V	Coil Ohms	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
850-1796	MPCX62	6	70	15.67	14.89	14.10	13.32
850-1797	MPCX63	12	250	15.67	14.89	14.10	13.32
850-1798	MPCX64	24	1000	15.67	14.89	14.10	13.32

MRRNL SERIES MAGNETIC LATCHING RELAY



Steel cover provides magnetic shielding and mechanical protection. Coils are bifilar wound. Must Operate Voltage: 3.0 VDC. Operate Time: 1 msec typical. Release Time: 1 msec typical. Size: 1⅛x⅜x.535".

Stock No.	Mfr's Type	Contacts	Coil VDC	DC Load	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
929-3657	MRRNL1A	1A	12	10W	11.16	7.20	6.84	6.48

MRR AND RR SERIES RELAYS WITH AXIAL LEADS



Leads rigidly epoxy-molded into one-piece units. Leads solder directly to terminal studs or supporting wiring, or bent at right angles for PC's. Wrap-around metal cans provide magnetic shielding. **MRR** Series miniature type, 15 watts. **RR** Series standard size, 15 watts. Terminal grid spacing: **MRR** Series 0.115"; **RR** Series, 0.2".

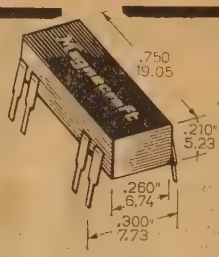
MMR SERIES WITH MINIATURE REED SWITCHES
Size: 1.062 x 425 d.

Stock No.	Mfr's Type	Contacts	Coil VDC	Coil Ohms	EACH 1-9	EACH 10-Up
929-3796	MRR1A	1A	6	288	8.68	5.60
929-3797	MRR1A	1A	12	1152	8.68	5.60

RR SERIES WITH STANDARD SIZE REED SWITCHES
Size: 1.875 x .670 x .840

929-4608	RR1A	1A	24	1440	6.67	4.30

DUAL INLINE REED RELAYS



- 8-Pin Reed Relays
- Compatible with Standard IC Packaging
- Offers Quality at Low Cost
- For High-Density Packaged Circuits
- Off the Optimum In Automatic Insertion

DIP (dual inline package) line of 8-pin reed relays. These relays are designed not only to be compatible with the standard packaging developed for integrated circuits, but to offer quality at low cost. This unique design gives further savings by offering the user the optimum in automated insertion and other economical installation techniques associated with printed applications. Ideal for use in circuits where high density packaging is essential.

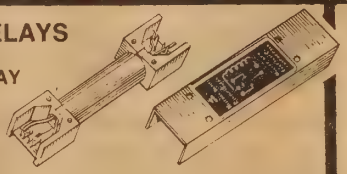
Stock No.	Mfr's Type	Coil Max. VDC Pickup	Coil Volts	Coil Ohms	Coil Typ. mW Required
850-1550	W107DIP-1	3.8	5	500	50
850-1552	W107DIP-3	9.0	12	500	300
850-1554	W107DIP-5	3.8	5	500	50
850-1316	W117DIP-9	3.8	5	200	125
850-1326	W118DIP-1	3.8	5	200	125
850-1334	W118DIP-5	3.8	5	200	125

PRICE CHART

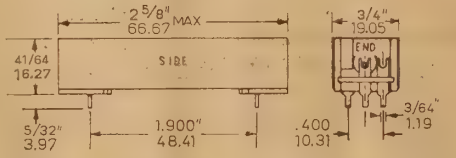
Stock No.	Contacts and Rating	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
850-1550	SPST NO 1 Form A 3 VA	5.18	3.45	3.11	2.93
850-1552	SPST NO 1 Form A 3 VA	5.18	3.45	3.11	2.93
850-1554	SPST NO 1 Form A 3 VA	6.08	4.05	3.65	3.44
850-1316	DPST NO 2 Form A 3 VA	7.65	5.10	4.59	4.34
850-1326	SPDT 1 Form C 6 VA	7.50	5.00	4.50	4.25
850-1334	SPDT 1 Form C 6 VA	8.25	5.50	4.95	4.68

ALLIED'S OWN PRINTED CIRCUIT REED RELAYS

STANDARD SIZE PRINTED CIRCUIT REED RELAY



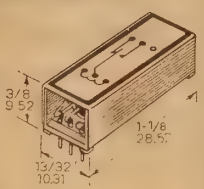
Integrally molded bobbin and terminal board. Hermetically sealed glass reed capsule. 1-pc. support terminals fastened to terminal board. Contact Load Rating: 15 Volt-Amperes at 1 amp maximum or 250VDC maximum, resistive. Contact Combinations: SPST-N.O. (1 Form A). Centers .200", $^3/_{64}$" diameter. Typical Life: 20 million operations; 100 million at ½ load.



Stock No.	Mfr's Type	Coil Data VDC†	Coil Data Ohms*	EACH 1-49	EACH 50-99	EACH 100-Up
703-2050	AMP2050	6	70	1.80	1.57	1.48

†80% or less of nominal voltage @ 25°C; *Values ±10% @ 25 C.

MINIATURE SIZE MODULAR PRINTED CIRCUIT REED RELAYS

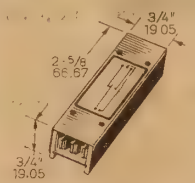


Boasts bobbin and terminal board. Welded leads and terminals. Contact Combinations: SPDT-N.O. (1 Form C). Load Rating: 3 VA max. @ 0.25 A max. or 28 VDC max., resistive. Coil Power: 500mW. Resistance: 250 milliohms.

Stock No.	Mfr's Type	Coil Data VDC†	Coil Data Ohms*	EACH 1-49	EACH 50-99	EACH 100-Up
703-2011	AMP2011	6	7	3.40	2.97	2.80
703-2012	AMP2012	12	300	3.40	2.97	2.80
703-2014	AMP2014	5	300	3.74	3.27	3.08

†80% or less of nominal voltage; @ 25C; *Values ±10% @ 25C.

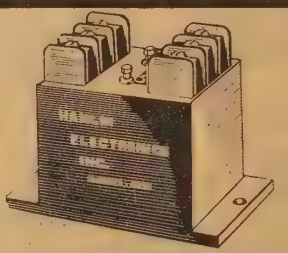
STANDARD SIZE MODULAR PRINTED CIRCUIT REED RELAYS



1-pc. support terminals fastened to terminal board and soldered stress-free to switch leads. Contact Combinations: SPDT (1 Form C). Contact Load Rating: 10 Volt-Amperes max. at 0.5 amp max. or 200 VDC max. resistive. Coil Power: 500mW. Operate Time: 2 ms. average.

Stock No.	Mfr's Type	Coil Data VDC†	Coil Data Ohms*	EACH 1-49	EACH 50-99	EACH 100-Up
703-2057	AMP2057	6	60	2.90	2.54	2.38
703-2058	AMP2058	12	250	2.90	2.54	2.38

†80% or less of nominal voltage, @ 25°C, *Values ±10% @ 25°C.



2½-AMP THREE-PHASE AC SOLID-STATE CONTROLLER

Type 612-11-100. Small dependable three phase controller capable of heavy starting overloads up to 80 amp per phase (one cycle). Quiet operation greatly reduces R.F.I. and E.M.I.! Ideal for small three phase motor control particularly when used in conjunction with low level logic. Contacts: 3-PST—normally open. Coil volts. 5VDC, Coil mA: 50. Size: 2.61x1.5x1.82" (66.2x38.1x 20.8mm). Wt. 4¾ oz. (10.47kg).

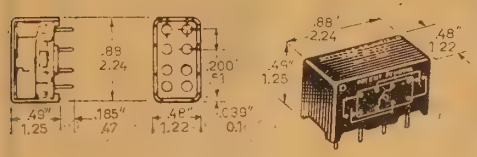
807-0040. 1-9 ..... Each 30.00
10-24 ..... Each 28.00
25-49 ..... Each 26.00
50-Up ..... Each 25.00

CONTACT FORMS

1 Form A (SPST-NO)	2 Form A (DPST-NO)	3 Form A (3PST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	2 Form C (DPDT)

Low Profile, Solid State and PC Mounting Relays

MICROMINIATURE HP RELAYS

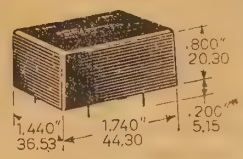


Recommended for applications such as TV cameras, dictating machines, desk top computers, copying machines, etc. For PC circuit board or socket mounting. Encased in black, high impact dust covers. Non-polarized, non-latching half-size relay has terminals on .200" grid; for plug-in or soldering. Long-life DPDT gold-plated silver contacts rated low level to 2 amps at 30 VDC resistive; 0.5 amp maximum at 120 VAC. Insulation resistance, 100 megohms minimum at 500 VDC; breakdown voltage, 500 V rms. Size: .49 x .88 x .48". *Socket/retainer ring. Shpg. wt. 1 oz.

Stock No.	Mfr's Type	DC V	Coil Ohms	EACH 1-9	10-24	25-49	50-Up
886-0256	HP-11D	12	218	15.07	12.05	11.45	10.85
886-0257	HP-11D	24	870	15.07	12.05	11.45	10.85
886-1405	27E062*	..	...	1.65	1.06	1.01	.95

EAX SERIES SOLID-STATE RELAYS

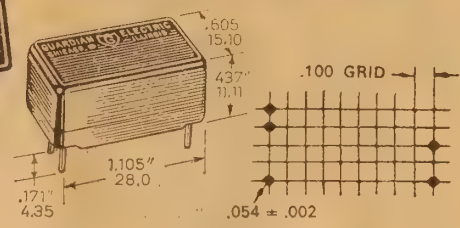
NEW!



Consists of a solid-state switch controlled and isolated by a toroidal transformer that is driven by a pulse circuit. Compatible with such logic as TTL, MOS and I^2L. Input current is a maximum of 12mA at all input voltages. Load current rating is 1.2 amps, 120VAC, 50/60 Hz, +25°C and is derated linearly between +25° and +55°C to a value of .75 amp. Has PC board termination situated on a 0.1" grid. Operate time is 0.5 ms max., release time at 60 Hz is 10 ms max. Wt. 1 oz.

Stock No.	Mfr's Type	Input DC Volts	Input mA max.	EACH 1-4	5-9	10-24	25-Up
886-0178	EAX1DA12 5	5	12	16.50	13.20	12.54	11.88
886-0179	EAX1DA12 12	12	12	16.50	13.20	12.54	11.88
886-0180	EAX1DA12 24	24	12	16.50	13.20	12.54	11.88

SERIES 1475 SPDT ELECTROMECHANICAL RELAYS



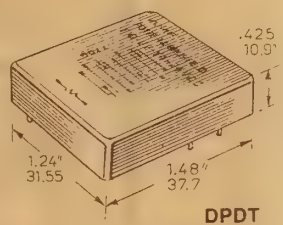
Low profile subminiature electromechanical relay specifically designed for high density packaging. Features unique multiple convoluted contacting surfaces rated up to 3 amps AC resistive. Contacts with built-in wipe because of armature with off-center fulcrum. .031" diameter terminal pins on .1" grid spacing for PC boards. Sealed thermoset glass-filled polyester housing and cover. Sealed to handle 650°F wave soldering or immersion in cleaning solvents. Insulation resistance: 10,000 megohms minimum at 20°C, 100VDC, 50% RH. Temperature range: −55°C to +70°C. Contact Comb.: SPDT.

Stock No.	Mfr's Type	Coil Volt.	Coil Res.	EACH 1-9	10-49	50-99	100-Up
802-1950	1475-1C-5D	5DC	44	5.00	3.61	3.42	2.66
802-1955	1475-1C-6D	6DC	70	5.00	3.61	3.42	2.66
802-1960	1475-1C-12D	12DC	288	5.00	3.61	3.42	2.66
802-1965	1475-1C-24D	24D	1152	5.20	3.96	3.56	2.77

LOW PROFILE RELAYS

IMMERSION CLEANABLE GENERAL PURPOSE RELAYS

T-10 is a DC operated relay only .425" (10.75mm) high, allowing PC boards to be mounted on 0.6" centers. It has permissive-make contacts noted for low bounce and long life. Operate and release times are each 15 ms, including bounce. Suffix "Y" denotes gold-clad silver, single-button contacts rated to 3 amps at 28 volts DC or 120 volts AC, resistance. A polycarbonate cover snaps in place over the relay to keep out dust and other contaminates. U.L. recognition. Wt. 1.06 oz. TTL buffer compatible.

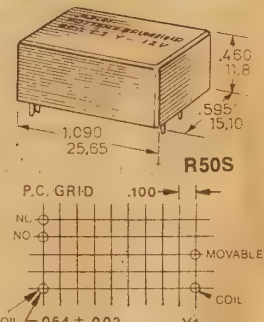


DPDT

Stock No.	Mfr's Type	COILS Input VDC	Res. in Ohms	Nom. Power	CONTACTS Arrange	Amp Ratings	EACH 1-9	10-49	50-99	100-Up
886-1300	T10-E2-Y2	6	77	470mW	DPDT	3	6.75	4.05	3.60	3.15
886-1305	T10-E2-Y2	12	310	465mW	DPDT	3	6.75	4.05	3.60	3.15
886-1310	T10-E2-Y2	24	1200	480mW	DPDT	3	6.75	4.05	3.60	3.15
886-1350	T10-E2-Y4	6	48	750mW	4PDT	3	7.73	4.64	4.12	3.61
886-1355	T10-E2-Y4	12	190	760mW	4PDT	3	7.73	4.64	4.12	3.61
886-1360	T10-E2-Y4	24	769	750mW	4PDT	3	7.73	4.64	4.12	3.61
886-1370	T10-E2-Y6	6	77	470mW	DPDT	3	10.43	6.26	5.56	4.87
886-1375	T10-E2-Y6	12	310	465mW	DPDT	3	10.43	6.26	5.56	4.87
886-1380	T10-E2-Y6	24	1200	480mW	DPDT	3	10.43	6.26	5.56	4.87

IMMERSION CLEANABLE SERIES R50 GENERAL PURPOSE PC BOARD RELAYS

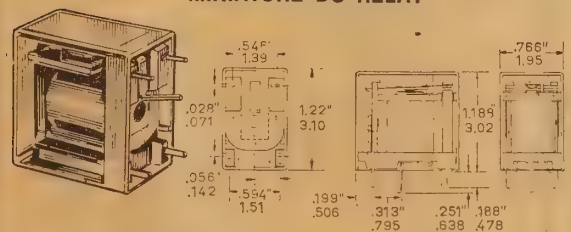
Relays seat .425" (10.75mm) high for use on printed circuit boards spaced as close together as 0.6" center-to-center. Nominal pick-up power is 160mW DC. Pickup is approximately 75% of rated coil voltage. Dropout is 5% minimum. Covered with a molded polyester case and gold-plated PC terminals spaced on 0.1" grid. Contact life expectancy at rated load is 500,000 operations minimum. Contact rating: 1 amp at 28 volts DC or 0.5 amp at 120 volts AC resistive. U.L. recognized. Wt. 0.3 oz.



Stock No.	Mfr's Type	Coil Voltage	Coil Resistance	Contact Comb.	EACH 1-9	10-49	50-99	100-Up
886-1190	R50S-E2-Y1-5VDC	5DC	64	SPDT	4.44	2.61	2.32	2.03
886-1195	R50S-E2-Y1-6VDC	6DC	66	SPDT	4.44	2.61	2.32	2.03
886-1200	R50S-E2-Y1-12VDC	12DC	330	SPDT	4.44	2.61	2.32	2.03
886-1205	R50S-E2-Y1-24VDC	24DC	950	SPDT	4.74	2.79	2.48	2.17
886-1210	R50-E2-X1-5VDC	5DC	25	SPDT	5.33	3.20	2.84	2.50
886-1215	R50-E2-X1-6VDC	6DC	37	SPDT	5.33	3.20	2.84	2.50
886-1220	R50-E2-X1-12VDC	12DC	125	SPDT	5.33	3.20	2.84	2.50
886-1225	R50-E2-X1-24VDC	24DC	440	SPDT	5.63	3.38	3.00	2.65

MINIATURE RELAYS

SERIES 1345 SPDT 10 AMP MINIATURE DC RELAY

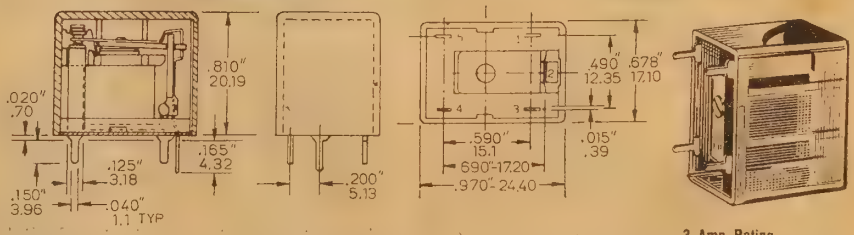


SPDT contact arrangements. Expected life, in excess of 100 million operations. Insulation resistance, 1000 megohms, min., at 500VDC. Breakdown voltage, 1000 VRMS 60 Hz between contacts; 1500 VRMS 60Hz between contacts and frame, coil and frame, contacts and coil. Contact material is silver cadmium oxide. PC standard terminals. Lock, snap-on nylon cover with transparent compact viewing window. Wt. 1 oz. (28.35 gm). Contact rating 3.5A resistive @ 120 VAC, 10A @ 12 VDC.

Stock No.	DC Coil Volts	±10% Tol. Coil Resistance	EACH 1-9	10-99	100-249	250-Up
802-1880	6	350	4.23	2.94	2.06	1.76
802-1885	12	1400	4.23	2.94	2.06	1.76
802-1890	24	5600	4.60	3.20	2.24	1.92

NEW!

1565 SERIES DC SPDT MINIATURE RELAYS



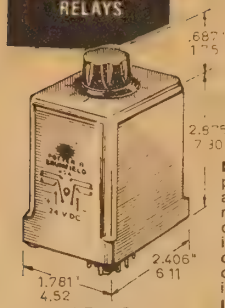
3 Amp Rating

These miniature, versatile 3 amp relays are small enough in size to be perfect for high density packaging. Terminals mount directly to PC board. Enclosure keeps contacts free from dust, dirt, grime. Specifically engineered for applications where board area and height are at a premium. Ideally suited to automotive, appliance, vending, business machines and security systems. Insulation resistance: 100 megohms minimum. Contact rating: 3 amp at 250 volts, 60 Hz or 30 volts DC resistive. Contact materials: silver cadmium oxide, standard.

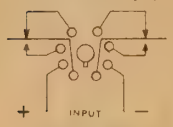
Stock No.	Mfr's Type	Nom. Volts	±10% Tol. Coil Res. (Ohms DC)	EACH 1-9	10-49	50-99	100-Up
802-1970	1565-1C-6D	6DC	45	3.05	2.20	2.09	1.62
802-1971	1565-1C-12D	12DC	180	3.05	2.20	2.09	1.62
802-1972	1565-1C-24D	24DC	720	3.13	2.26	2.14	1.67

Time Delay and Thermal Relays

TIME DELAY RELAYS

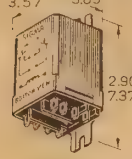


WIRING DIAGRAMS (Disregard DC polarity for AC relays)





CU-41



CU-42

Delay On Operate — The delay period begins when input voltage is applied. The relay will remain de-energized until the end of the delay period, at which time it energizes and operates the output contacts. Reset is accomplished by removal of the input voltage.

Interval On—The relay operates immediately upon application of input voltage. At the end of the adjustable, predetermined interval the relay drops out, even though input voltage may still be applied. It will remain dropped out until reapplication of input voltage. Reset is accomplished by removal of input voltage.

Delay On Release — The relay operates immediately upon application of input voltage. When input voltage is removed, the relay remains energized until the end of the delay period.

CU SERIES ADJUSTABLE TIME DELAY RELAYS

Where fast reset time and excellent repeatability are required. Designed for delay-on-operate use, with fixed timing tolerance of ±5% and resistor adjustable tolerance of ±10%. Ideal for vending equipment, machine tool control or process controls. Each unit contains internally-mounted 10-amp DPDT relay. Type CU-41 uses KUP series socket. Type CU-42 enclosures have flanged cases for mounting directly to chassis. Units with adjustable time delay require external resistor for operation.* Resistances indicated in table below are for maximum delay time. Yellow Polycarbonate case. Av. shpg. wt. 4¼ oz. (120 gm).

RESISTOR-ADJUSTABLE DELAY TYPES (LESS RESISTOR)

Stock No.	Mfr's Type	Delay (Sec.)	Volts	Res.* (Ohms)	EACH 1-9	10-24	25-Up
886-0148	CUF41-70010	1-10	120 AC	200k	24.32	18.48	17.51
886-0149	CUF41-70120	1-120	120 AC	2.4 meg	26.38	20.05	18.99
886-0153	CUF42-70010	1-10	120 AC	200k	24.32	18.48	17.51
886-0154	CUF42-70120	1-120	120 AC	2.4 meg	26.38	20.05	18.99

For Explanation of Time Delay Functions; Delay On Operate, Interval On and Delay On Release, See Left.

CG Series relays are available in time delay on operate or interval on. They feature a C/MOS integrated circuit controlling an internal DPDT relay having contacts rated 10 amps @ 120VAC, or 5 amps @ 240VAC resistive. Repeatability, including first cycle of operation, is typically .05% for DC units and 0.1% for AC units. The delay time provided by the IC network is not normally affected by voltage transients encountered in industrial applications. The relay contacts will not transfer if timing cycle is momentarily interrupted. Weight is approximately 8 ozs. (227 gm). *

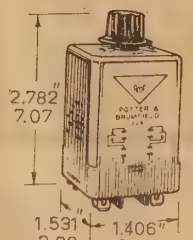
All Are Knob Control Types

DELAY ON OPERATE
All use 8-pin octal sockets

Stock No.	Mfr's Type	Time Delay	Input Volt.	Dia. No.	EACH 1-4	5-Up
886-0059	CGB38-70010M	1.0-10Min	120 VAC	1	80.43	64.35
886-0060	CGB38-70100M	10-100Min	120 VAC	1	80.43	64.35

INTERVAL ON

886-0061	CGB38-79010M	1.0-10Min	120 VAC	1	80.43	64.35
886-0062	CGB38-79100M	10-100Min	120 VAC	1	80.43	64.35

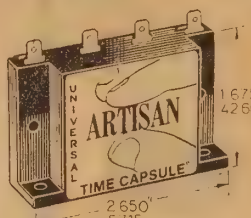


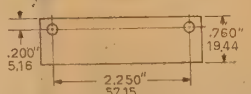
CUB51 TIME-DELAY RELAYS

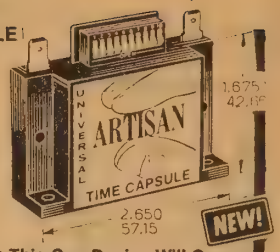
Knob-adjustable delay-on-operate time delay relays. DPDT contacts 10 A at 28 VDC resis., or 120 V, 60 Hz AC, 80% power factor. Cal. dial. Tol.: adjust., ±3%. Reset: 150 msec. Recycle: 150 msec. Transient protection of twice rated input voltage for up to 8 msec. Polarity protected. Operate room temp. Timing intervals adjust, over timing ranges *1 to 10 secs. or †1 to 120 secs. 1.53×1.406×2.78" (3.87×3.57×7.07 mm) (including knob). 120 VAC. 3½ oz. (99 gm).

Stock No.	Type CUB51-	EACH 1-9	10-24	25-Up
886-0131	70010*	27.82	21.14	20.03
886-0132	70120†	28.88	21.95	20.79

UNIVERSAL TIME CAPSULE







- **This One Device Will Operate in Any Load Circuit From 24 to 240 Volts AC or DC**
- **Completely Miniaturized and Encapsulated**

Model 438U's timing period is controlled by the connection of a resistor across the center two terminals allowing for time delay period from 1 to 1000 seconds. **Model 438USA** is a Universal Switch Adjustable Time Capsule which combines the operating characteristics of **Model 438U**, above, with ten programmable switches enabling the time delay period to be set from 1 to 1024 seconds without external resistors. Specifications: Operating voltage: 24 to 240V AC/DC. No need to observe polarity. Recycle time: 200 milliseconds max. timing cycle. Output current rating: 1 ampere inductive at nominal operating voltage. Off resistance is 20K. Temp. range: −15° to +85°C. UL Component Program Recognized.

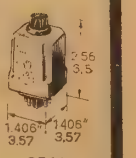
519-1000. Type 438U. Resistor Adjustable ..... Each 14.95
519-2000. Type 438USA. Switch Adjustable ..... Each 19.95

SERIES CH AND CD TIME-DELAY DEVICES AND RELAYS

Solid-state devices. Reset within milliseconds. Adjustable over entire time range. Plastic enclosures. Series CH: temp., −10°C to +55°C, acc., ±10%, reset, 100 msec; repeatability, ±2%. Series CD: temp., −40°C to +55°C; acc., ±5%; reset, 60 msec; repeatability, ±1%. CHB/CDB38 time delays have internal DPDT 10-amp relay. Others are timer only; use with other relays; *KRP11AG or KRP14AG. CDB38-70012, CHB38-70011, and CHB38-70013 provide delay on release, others delay on operate. Wts.: CD21, 5 oz. (142 gm); CD38, 9 oz. (255 gm); CH38, 5 oz. (142 gm).



CH/CD38



CD21

DELAY ON OPERATE (Use 8-pin octal sockets)

Stock No.	Mfr's Type	Input Volts	Delay Sec.	EACH 1-9	10-24	25-Up
886-0080	CHB38-30001	24 AC	1.0-10	32.18	24.46	23.18
886R0090	CHB38-70001	120 AC	1 0-10	32.18	24.46	23.18
886-0091	CHB38-70003	120 AC	1.0-180	32.18	24.46	23.18
886-0085	CHD38-30001	24 DC	1.0-10	30.63	23.28	22.05
886-0086	CHD38-30003	24 DC	1.0-180	30.63	23.28	22.05
886-0053	CDB38-70003	120 AC	0.1-10	71.38	54.25	51.39
886-0054	CDB38-70004	120 AC	0.6-60	71.38	54.25	51.39
886-0055	CDB38-70005	120 AC	1.8-180	71.38	54.25	51.39
886-0051	CDB21-70003*	120 AC	0.1-10	63.13	50.50	47.98

DELAY ON RELEASE (Use 11-pin sockets)

886-0082	CHB38-70011	120 AC	1.0-10	40.18	30.54	28.94
886-0083	CHB38-70013	120 AC	1.0-180	40.63	30.88	29.25
886-0057	CDB38-70012	120 AC	.6-60	85.32	64.84	61.43

THERMAL RELAYS



A



B

- **Heater Can Operate Continuously**
- **Convenient 9-pin or Octal Mounting**
- **Contacts 3 Amps at 115 VAC; 1 Amp at 220 VAC**

Energized heater close contacts for NO Types or open for C Types after rated delay period. Relay heater operates on AC or DC. Heater draws two watts; may operate continuously. SPST contact is 3 amps at 115 VAC; 1 amp at 220 VAC. Voltage breakdown: 800 volts; heater-to-contact, 800 volts, except *250 volt contact and 500 volts heater-to-contact for units with delays of 10 seconds or less. Temperature range: −55°C to +70°C. Tolerance, ±30%. Octal base size, 1⅞-in. diameter, 2⅞-in. high, less prongs. Nine-pin miniature size for easy fit, anywhere. Made to the most rigid specifications and exacting tolerances in the industry. Measures ¾ inches diameter, by 2⅝ inches high (measurements do not include prongs). **When ordering, Please Specify Type Number As Well As Stock Number.** Average shpg. wt., 4 oz., octal base; 2 oz., 9-pin miniature.

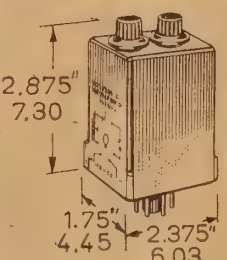
A MINIATURE 9-PIN TUBE SHELL

NOTE: NO in Mfr's type number means normally open, C in Mfr's type number means closed.

Stock No.	Mfr's Type	Delay Sec.	Volts	EACH 1-9	10-49	50-99	100-Up
711-1065	6N030T	30*	6.3	5.25	4.20	3.00	2.65
711-1067	6N045T	45	6.3	5.25	4.20	3.00	2.65
711-1451	115N02T	2*	115	5.25	4.20	3.00	2.65
711-1453	115N03T	3*	115	5.25	4.20	3.00	2.65
711-1455	115N05T	5*	115	5.25	4.20	3.00	2.65
711-1459	115N010T	10*	115	5.25	4.20	3.00	2.65
711-1465	115N030T	30	115	5.25	4.20	3.00	2.65
711-1475	115N0120T	120	115	5.25	4.20	3.00	2.65
711-1001	6C2T	2*	6.3	5.25	4.20	3.00	2.65
711-1401	115C2T	2*	115	5.25	4.20	3.00	2.65

B OCTAL BASE TUBE SHELL

711-1058	6N010	10*	6.3	5.25	4.20	3.00	2.65
711-1068	6N060	60	6.3	5.25	4.20	3.00	2.65
711-1250	26N02	2*	26	5.25	4.20	3.00	2.65
711-1450	115N02	2*	115	5.25	4.20	3.00	2.65
711-1452	115N03	3*	115	5.25	4.20	3.00	2.65
711-1454	115N05	5*	115	5.25	4.20	3.00	2.65
711-1458	115N010	10*	115	5.25	4.20	3.00	2.65
711-1460	115N015	15	115	5.25	4.20	3.00	2.65
711-1462	115N020	20	115	5.25	4.20	3.00	2.65
711-1464	115N030	30	115	5.25	4.20	3.00	2.65
711-1466	115N045	45	115	5.25	4.20	3.00	2.65
711-1468	115N060	60	115	5.25	4.20	3.00	2.65
711-1474	115N0120	120	115	5.25	4.20	3.00	2.65
711-1478	115N0180	180	115	5.25	4.20	3.00	2.65
711-1204	26C5	5*	26	5.25	4.20	3.00	2.65
711R1400	115C2	2*	115	5.25	4.20	3.00	2.65
711-1402	115C3	3*	115	5.25	4.20	3.00	2.65
711R1404	115C5	5*	115	5.25	4.20	3.00	2.65
711-1408	115C10	10*	115	5.25	4.20	3.00	2.65
711-1410	115C15	15	115	5.25	4.20	3.00	2.65
711-1412	115C20	20	115	5.25	4.20	3.00	2.65
711-1414	115C30	30	115	5.25	4.20	3.00	2.65
711-1418	115C60	60	115	5.25	4.20	3.00	2.65
711-1424	115C120	120	115	5.25	4.20	3.00	2.65
711-1428	115C180	180	115	5.25	4.20	3.00	2.65



CS SERIES SOLID-STATE VOLTAGE SENSORS

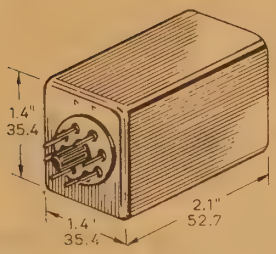
Series 30010, 70010 offer adj. pick-up, drop-out voltages. Drain: 3 mA (max.); after sensing, 30 mA. DC polarity protection. 2 Form C(DPDT) contacts: 3A at 28 VDC resistance; 120 VAC resistance. Ambient, −40° to +55°C. AC types — 50-60 Hz. Octal plug. Cover. Uses 8-pin octal sockets. 2⅞ × 1¾ × ⅜" (7.30 × 4.45 × 6.03 mm). Wt. 10 oz (284 gm).

Stock No.	Type CS	Pick-Up Range	Drop-Out Range	V	EACH 1-9	10-24	25-Up
886-0118	J38-70010	92-140 V	90-138 V	AC	51.68	39.28	37.22
886-0119	L38-30010	20-30 V	18-28 V	DC	41.32	31.40	29.75

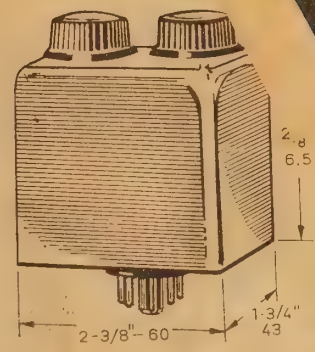
See Page 2 for the Allied Electronics Facility Nearest You

Time Delay Relays and Repeating Cycle Timer

SS6 AND SS8 SERIES SOLID STATE TIME DELAY RELAYS



- **Choice of Functions — On or Off Delay**
- **Compact Packages — Fit Standard 8-Pin Socket**
- **Relays are Screwdriver Slot Adjustable**
- **Solid State Reliability at a Low Cost**
- **Perfect for a Variety of Applications**



SS6 SERIES. Upon application of control power, time delay period begins. At end of time delay, output switch operates. When control power is removed, output switch returns to normal. Typical applications: burglar alarms, automated valve systems, protective circuit delay, alarm and annunciator systems, air and hydraulic systems, motor generator controls, pump timing controls, refrigeration equipment controls, battery charging controls, and cascade starting of several motors (to distribute starting demand). Ambient temp. range: 0° to +130°F. Power consumption: 2 watts max. Available in SPDT 3 amp outputs. Recycle time 100 ms. Repeatable accuracy: ±5%. Adjustable — screwdriver slot.

SS8 SERIES. Upon closure of the control switch, output switch operates. Upon opening of control switch, time period begins. However, any control switch closures prior to the end of the time period will immediately reset the time. At the end of the time period, output switch returns to normal. Continuous power must be furnished to timer. Typical applications: packaging machines, photocopiers, blueprint machines, flow control — liquid and granule, electric door controls, security systems, lighting and ventilating control and laboratory processing. Available in SPDT 3 amp outputs. Ambient temp. range: 0° to +130°F. Repeatable accuracy: ±5%. Power: 2 watts max. Recycle time: 100 ms.

SPDT 3 AMP ON DELAY
Fits Standard 8-Pin Socket

Stock No.	Mfr's Type SS-	Input Volt	Delay (Sec.)	EACH 1-9	10-49	50-99	100-Up
819-1115	6262 II	120VAC	1-15	14.50	13.05	12.25	11.00
819-1117	6262 JJ	120VAC	1-60	15.95	14.36	13.47	12.11
819-1119	6262 KK	120VAC	1-180	19.25	17.33	16.26	14.61
819-1122	6266 II	12VDC	1-15	14.50	13.05	12.25	11.00
819-1124	6266 JJ	12VDC	1-60	15.95	14.36	13.47	12.11
819-1121	6268 II	24VAC	1-15	14.50	13.05	12.25	11.00
819-1123	6268 JJ	24VAC	1-60	15.95	14.36	13.47	12.11

SPDT 3 AMP OFF DELAY
Fits Standard 8-Pin Socket

Stock No.	Mfr's Type SS-	Input Volt	Delay (Sec.)	EACH 1-9	10-49	50-99	100-Up
819-1135	8562 II	120VAC	1-15	17.95	16.16	15.16	13.62
819-1137	8562 JJ	120VAC	1-60	19.25	17.33	16.26	14.61
819-1139	8562 KK	120VAC	1-180	22.95	20.66	19.39	17.42
819-1142	8566 II	12VDC	1-15	17.95	16.16	15.16	13.62
819-1144	8566 JJ	12VDC	1-60	19.25	17.33	16.26	14.61
819-1141	8568 II	24VAC	1-15	17.95	16.16	15.16	13.62
819-1143	8568 JJ	24VAC	1-60	19.25	17.33	16.26	14.61

23 SERIES LOW COST REPEATING CYCLE TIMERS

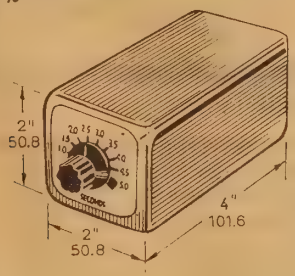
- **Rugged Steel Package**
- **Fits Standard Octal Socket**
- **Wide Range of Voltages**

Repeatable accuracy is ±1%. Fully protected against voltage transients and polarity changes. Rugged steel case shields against noise. Output: DPDT 10 amp. Input: 120 volts AC, 12 volts DC. 0° to 130°. On and off time independently adjustable. Cycling sequence is initiated in the "OFF" mode by applying power to the terminals. When the first pre-set delay is complete, the contacts transfer from normally OFF to energized ON, at which time the on delay begins. If power is removed during any part of the operate cycle, the timer reverts to its off state (contacts open).

Stock No.	Mfr's Type	Input Volt	Delay (Sec.)	EACH 1-9	10-49	50-99	100-Up
819-1300	23122-06	120VAC	1-15	47.50	42.75	40.12	36.05
819-1305	23122-10	120VAC	1-180	52.95	47.66	44.73	40.19
819-1315	23126-10	12VDC	1-180	52.95	47.66	44.73	40.19

SS10 AND SS11 SERIES SOLID STATE TIME DELAY RELAYS

- **Programmable for a Variety of Applications**
- **Rugged Steel Package Shields Against Noise**
- **Precise ±1% Repeatable Accuracy**



This series answers applications requiring highly reliable yet versatile timers. Plug-in fits standard 11-pin sockets. Output: DPDT 10 amp. Input: 120 VAC and 24 VDC. Fully protected against voltage transients and polarity changes. Temp. range: 0° to 130°F. Fast recycle time—less than 50 MS. **SS10 Actions.** Standard on Delay: Same as SS6 above. Jam-up Control: Upon opening of control switch, time delay period begins. However, any control switch closures prior to end of time delay period will immediately recycle the timer. At end of time delay period output switch operates and remains operated until the required continuous power is interrupted. Totalizer/Pre-Set Counter: The output switch will operate when sum of individual control switch closure durations equal pre-set time delay period. There may be interruptions between control switch closures of up to 15 minutes without substantially altering the cumulative timing accuracy. The output switch returns to normal when the continuous power is interrupted. **SS11 Actions.** Interval: Upon application of control power, output switch operates. At end of timed period output switch returns to normal. Control power must be interrupted in order to recycle. Standard Off Delay: Same as SS8 above. Momentary Actuation: Upon closure of the control switch, output switch operates and time period begins. The time period is not affected by duration of the control switch closure. At the end of time period, output switch returns to normal. Continuous power must be furnished to this timer.

SS10 SERIES — ON DELAY PROGRAMMABLE
Fits Standard 11-Pin Socket

Stock No.	Mfr's Type SS-	Input Volt	Delay (Sec.)	EACH 1-9	10-49	50-Up
819-1400	10-222B	120VAC	.05-0.5	55.50	49.95	46.89
819-1405	10-222C	120VAC	0.5-5.0	55.50	49.95	46.89
819-1410	10-222N	120VAC	1-15 min.	68.25	61.43	57.66

SS11 SERIES — OFF DELAY PROGRAMMABLE
Fits Standard 11-Pin Socket

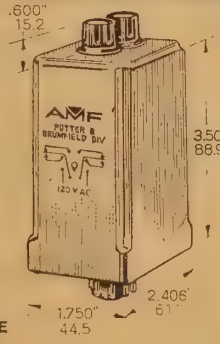
Stock No.	Mfr's Type SS-	Input Volt	Delay (Sec.)	EACH 1-9	10-49	50-Up
819-1450	11-822B	120VAC	.05-0.5	62.95	56.66	53.18
819-1455	11-822C	120VAC	0.5-5.0	62.95	56.66	53.18
819-1460	11-822N	120VAC	1-15 min.	75.75	68.18	63.99

15

CR SERIES RECYCLE TIMERS

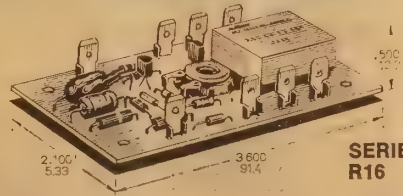
CR Series recycle timer has two independent control knobs for adjusting ON and OFF delays from 1.8 to 180 seconds. The recycling sequence is initiated by applying power to the terminals. When the first pre-set delay is complete, the contacts transfer from normally OFF to energized ON, at which time the ON delay begins. If power is removed during any part of the operate cycle, the CR will revert to its OFF state (Contacts open). Repeatability ±2%.

DELAY ON OPERATE AND ON RELEASE



Stock No.	Mfr's Type	Time Delay (Sec.)	Method of Control	Input Voltage	EACH 1-3	4-Up
886-0097	CRB48-70180	1.8-180	Knob	120 VAC	69.82	55.85
886-0099	CRD48-30180	1.8-180	Knob	24 VDC	68.13	54.50

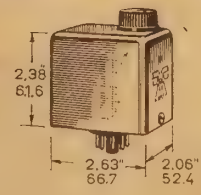
TIME DELAY RELAYS



SERIES R16

R16 time delay on operate is available in the timing range of 2.0 to 30 seconds. A potentiometer is used to set the timing values. All components are mounted on a .062" G10 glass/epoxy printed circuit board with .250" quick connect termination. Contacts have a life expectancy in excess of 10 million operations, mechanical, and at least 100,000 operations at full load @ 28 VDC. Board mounts with #6 screws. Repeatability ±3%. Contact arrangement DPDT.

Stock No.	Mfr's Type (R16-)	Input Voltage	Amp. Rating	EACH 1-9	10-Up
886-1062	30A-24A-Y2	24VAC	2	14.23	10.98
886-1064	30A-120A-Y2	120VAC	2	15.47	11.93



DPDT 5 AMP TIME DELAY RELAY

Operates from 115 VAC ±10% 50-60 Hz. Recycle time, 100 msec.; repeatability, 5% of nominal setting; accuracy, 10% of nominal setting. 10-turn pot adjusts from 0.5 to 30 seconds. —10°F to +100°F. Plug-in octal mounting. With setting chart. 3x2.062x2.625". 8 oz.

802-0640. Type TDO-62C30-115A.
1-9..... Each 34.15 10-24..... Each 27.81
25-49..... Each 26.34 50-Up..... Each 24.88

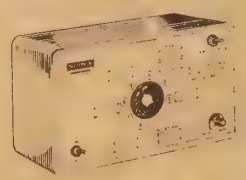
Relay Testers and Adjusting Tools

AUTOMATIC RELAY TESTERS

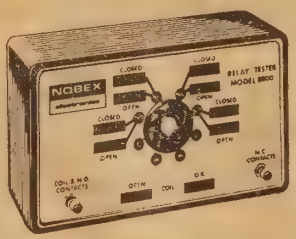
These unique miniature instruments perform laboratory quality tests in a production line environment. Completely self-contained, no optional accessories or other equipment required. Relay testers perform all test functions and display test results in a diagnostic fashion with red, yellow and green LED indicators at the rate of eight times per second. Relay testing capabilities include: actuation time, contact bounce and contact drop with a 0.5 ampere current. Red LED display indicates contact failure, yellow LED display indicates marginal contact, green LED display indicates that coil and contacts have passed all tests. A control for marginal detection level can be set at any value between 20 and 500 millivolts, according to relay application and replacement criteria. Instruments allow inexperienced personnel to conduct rapid relay testing with total comprehension of the test results without supervision. Operator training takes only minutes, while relay testing is accomplished in seconds. These new testers permit identification and replacement of relays whose performance is marginal, thereby reducing incidence of machine breakdown. Depiction of specific failure mode enhances detection of "overload" or other failures. Early warning of unscheduled machine down-time is a practical and economical utilization of these instruments for increased productivity when used in a regularly scheduled program of preventative maintenance. Each model illustrated includes description specifications, illustration of relay type tested and socket base and the Potter and Brumfield relay series for reference. All models incorporate internal fuse and thermal overload protection.



MODEL 8810 is a Standard 8-Pin Octal Based Auto-Cycling, Diagnostic Relay Tester for SPDT or DPDT contact configurations. Automatically adjusts for coil voltage. A 2 position switch and indicators are provided for testing 1 and 2 pole relays with, or without built-in lamps, in KAP-5, KAP-11, KRP-5 and KRP-11 (P&B) relay types. Specifications: Tests coil voltages AC/DC; 6, 12, 24, 48 and 115 with nominal power of 1.2 watts or 2VA. Power requirements: 105-125VAC, 50-60 Hz, 10 watts max. 4x6x2" unbreakable grey case. Instruction manual included. Wt. 2 lbs.
501-1000 ..... **Each 265.00**



MODEL 8820. Standard 11-pin octal based auto-cycling, diagnostic relay tester for 3PDT contact configurations. Automatically adjusts for coil voltage. Test relays with, or without built-in lamps in KAP-14 and KRP-14 (P&B) relay types. Specifications: Tests coil voltages AC/DC; 6, 12, 24, 48 and 115 with nominal power of 1.2 watts or 2VA. 4x6x2" unbreakable red case. Power requirements: 105-125VAC, 50-60 Hz, 10 watts max. Instruction manual included. Wt. 2 lbs.
501-1100 ..... **Each 250.00**



ECONOMY RELAY TESTER

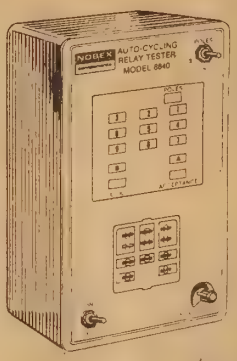
MODEL 8800 is low-cost and semi-automatic. Features diagnostic testing capabilities for popular 8-pin octal based relays with DPDT contact configurations. Automatically adjusts for coil voltage. "Go-No-Go" testing of contacts and coil is cycled manually. Specifications: Tests coil voltages AC; 24, 48 and 115. DC; 24 and 48 with power of 1.2 watts, or 2.0VA. Contact configuration is DPDT. Power requirements: 105-125VAC, 50-60 Hz, 10 watts max. Instruction manual included. Black case. Size: 4x6x2". Weight 2 lbs.
501-1600 ..... **Each 115.00**







MODEL 8830. Miniature square based auto-cycling diagnostic relay tester for 4DPT contact configurations. Automatically adjusts for coil voltage. Tests relays with, or without built-in lamps in KHP-17, KHU-17 and KHS-17 (P&B) relay types. Specifications: Tests coil voltages AC; 6, 12, 24 and 120. DC; 6, 12, 24, 48, 90 and 110/120 with coil power of 0.9 watts or 1.2VA. Power requirement: 105-125VAC, 50-60 Hz, 10 watts max. 4x6x2" unbreakable brown case. Instruction manual included. Shipping wt. 2 lbs.
501-1200 ..... **Each 260.00**





MODEL 8840. Industrial square based auto-cycling, diagnostic tester for SPDT, DPDT, or 3PDT contact configurations. Automatically adjusts for coil voltage. A 3 position switch and indicators are provided for testing 1, 2 and 3 pole relays. Tests relays with, or without built-in lamps in KUP-5, KUP-11 and KUP-14 (P&B) relay types. Specifications: Tests coil voltages AC/DC; 6, 12, 24, 48 and 115 with nominal power of 1.2 watts or 2VA. Power requirements: 105-125VAC, 50-60 Hz, 10 watts max. Instruction manual included. Size 4x6x2". Weight 2 lbs.
501-1300 ..... **Each 285.00**



MODEL 8850. Miniature based auto-cycling, diagnostic relay tester for DPDT and 4PDT contact configurations. Automatically adjusts for coil voltage. A 2 position switch and indicators are provided for testing 2 and 4 pole relays. Tests relays with, or without built-in lamps in R-10, E1 series (P&B) relay types. Specifications: Tests coil voltages AC/DC; 6, 12, 24, 48 and 115 with power from 0.69 to 0.88 watts. Power requirement: 105-125VAC, 50-60 Hz, 10 watts max. 4x6x2" unbreakable blue case. Wt. 2 lbs.
501-1400 ..... **Each 280.00**



MODEL 8860. Square based auto-cycling, diagnostic relay tester for SPDT, DPDT, or 3PDT contact configurations. Automatically adjusts for coil voltage, 3 position switch and indicators provided for testing 1, 2 and 3 pole relays. Tests relays with, or without built-in lamps in KNP-5, KNP-11 and KNP-14 (P&B) relay types. Specifications: Tests coil voltages AC/DC; 6, 12, 24, 48 and 120 with power of 0.9 to 1.0 watts, or 1.2VA. Power: 105-125VAC, 50-60 Hz, 10 watts max. Instruction manual included. Tan case. Size 4x6x2". Wt. 2 lbs.
501-1500 ..... **Each 285.00**

PRECISION TOOLS FOR RELAYS AND OTHER COMPONENTS

K-600 20-PIECE ELECTRONIC TOOL SET

Contains: chain-nose, groove-grip and diagonal cutting pliers; stnd. and Phillips screwdrivers; magnifiers; soldering iron; straight and bent-nose tweezers; solder aid; alignment tool; 2 needle files; pin vise; solder core; 3/16" and 1/4" nut drivers; 2 jewelers screwdrivers; and pen burnisher with 21 blades. Zippered leather case. 2 lbs.
830-0350. 1-4 ..... **Each 79.16**
5-Up ..... **Each 63.33**



KR-6 8-PIECE TOOL KIT

Compact tool kit for setting, adjusting, testing relays. Carbon steel, polished finish. Kit includes the following: spring adjuster; armature arm bender; armature stop bender; duckbill plier; contact burnisher; 0-50 gram spring tension gauge; swivel head screwdriver; fine point tweezer. With storage case.
830-0354... Ea. 52.83 **5-Up .. Ea. 45.28**





G-150 SPRING TENSION GAUGE. 10 gram steps, both sides (0-150 grams). 5 oz.
830-0305. 1-4 Ea. 22.75 **5-Up Ea. 18.20**

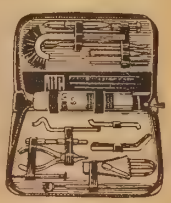


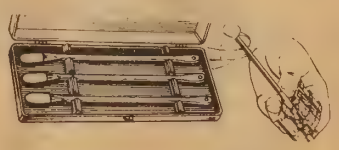
WIRE BRUSH

Stock No.	Type	Description	Lgth. (In.)	EACH
830-0480	WB-65	Nickel-silver wire brush	9	10.00

MASTER TOOL KIT K-55 15-PC.

For adjusting and maintaining relays, contactors, switches, controls. Complete 15-pc. kit includes: two spring adjustors (SA-7, SA-17); duckbill plier; inspection mirror; armature arm bender; penfile contact burnisher; tension measuring gauge; screwdriver; 4-in-one tool; backstop bender; angle thickness gauge; tweezers; selector switch contact cleaning brush; 12 replacement burnisher blades; "Kontact 60" spray. Case. Wt. 3½ lbs.
830-0344. 1-4 ..... **Each 95.00**
5-Up ..... **Each 76.50**





CONTACT SPATULAS

Diamond-faced contact spatulas clean with gentle pressure; do not disturb contact gap. **Type 200.** .019" diamond grain. **Type 300.** .017" diamond grain . . . 2 diamond faces. **Type 400.** .011" diamond grain. **Type K-234.** Set of one each in plastic case. 6" long. *Per set. Ship. wt. 2 oz.

Stock No.	Mfr's Type	For Relays	Price EACH
830-0240	D-200	Industrial	14.70
830-0244	D-300	Intermediate	14.70
830-0248	D-400	Sensitive	14.70
830-0349	K-234	Set of 3	*32.38

POCKET-TYPE CONTACT BURNISHERS

6 blades in plastic pen. 4½x⅜" dia.
830R0357. PB-7 Pen, 6-0.007"
Blades ..... **Ea. 12.25**
830-0356. PB-3 Pen, 6-0.0035"
Blades ..... **Ea. 13.15**
830-0212. B-7 Blades for PB-7 Pen
Pkg. of 25 Blades ..... **Ea. 13.37**
830-0211. B-3 Blades for PB-3 Pen
Pkg. of 25 Blades ..... **Ea. 13.00**



POCKET-TYPE BURNISHERS

P-4 & P-6 BURNISHERS. Leave no residue on contact. Replaceable blades. Insulated. Pocket clip. ⅜x5½". 5 oz.
P-4. With 12 RB4 (1/4x1¼") blades.
830-0366. ... Ea. 13.15 5-Up ... Ea. 10.95
P-6. With 12 RB6 (3/16x1¾") blades.
830-0370 ... Ea. 13.15 5-Up ... Ea. 10.95
Replacement Blades. Pkg. of 25. For above, 2 oz.
830-0375. RB4. Ea. 13.00 5-Up Ea. 11.90
830-0377. RB6. Ea. 13.00 5-Up Ea. 11.90



RELAY SPRING ADJUSTING TOOL

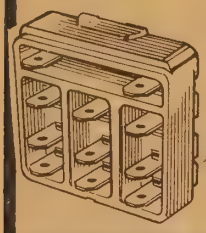


For all relay types. Constructed of plated and polished high carbon steel, heat treated and tempered. Insulated handle. .023" (.584mm) slot width. Length: 8" (203.2mm). Weight 3 oz.
830-0412. Type SA-17. **1-4 .... Ea. 13.95 . 5-Up .... Ea. 12.15**

Relay Sockets and Accessories

KUP SOCKETS AND KU MOUNTING STRIP

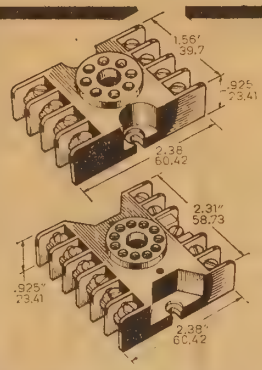
NEW!



These SPDT/DPDT/3PDT sockets snap into a chassis and hold securely in place without additional hardware for support. Socket **27E396** has .187" quick connect terminals, socket **27E400** has solder terminals. KU mounting strip **37D632**, for use with above sockets, will mount six KU sockets (except 27E121) in aluminum strip 11.9x3.00x.062".

Stock No.	Mfr's Type	Desc.	EACH 1-9	10-24	25-49	50-Up
886-1436	27E396	Socket	2.73	1.55	1.47	1.40
886-1437	27E400	Socket	1.75	1.00	.95	.90
886-1490	37D632	Mtg. Strip	1.90	1.09	1.04	.98

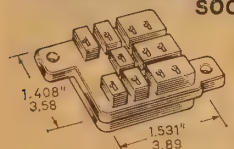
OCTAL-STYLE SOCKETS



For **KRP, KRP3-H,KAP, KBP, KCP, EBT,** and **EBA** relays; **CD-21, CD-38, CH, CK,** and **CR** time delays; and **CS** sensor. **Type 27E122** is molded polycarbonate, 8-pin screw terminal socket, rated 10 amperes. **Type 27E123** is molded polycarbonate, 11-pin screw terminal socket, rated 10 amperes.

Stock No.	Mfr's Type	Socket Type	EACH 1-9	10-24	25-49	50-Up
886-1426	27E122	Screw Term.	5.45	3.12	2.96	2.81
886-1427	27E123	Screw Term.	8.18	4.67	4.44	4.20

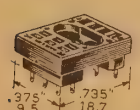
SOCKETS FOR KUP SERIES



Standard: all are rated 10 amperes. Will accept .187-in. terminals of all Series KU and plain case Series KUP relays. *Type 20C228 hold-down spring.

Stock No.	Mfr's Type	Socket Term.	EACH 1-9	10-24	25-49	50-Up
886-1420	27E043	Solder	1.58	1.00	.95	.90
886-1421	27E046	P.C.	1.83	1.17	1.11	1.05
886-1425	27E121	Screw	7.73	4.95	4.70	4.46
886-1422	20C228	*Spring	.35	.22	.21	.20

FOR SERIES R10 RELAYS STRIP GROUND SOCKETS



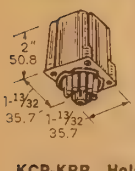
Types 27E125 and 27E128 are 2PDT sockets, spring ground; Type 27E126 and 27E129, 4PDT socket, spring ground; Types 27E127 and 27E130 are 6PDT sockets, spring ground. **Contact your nearest Allied facility for larger quantity pricing.**

Stock No.	Mfr's Type	Terminal Type	EACH 1-9	10-49	50-99	100-Up
886-1430	27E125	Solder	.98	.59	.52	.46
886-1431	27E126	Solder	1.25	.75	.66	.58
886-1432	27E127	Solder	1.60	.95	.85	.74
886-1433	27E128	PC Term.	.98	.59	.52	.46
886-1434	27E129	PC Term.	1.25	.75	.66	.58
886-1435	27E130	PC Term.	1.93	1.15	1.02	.90

HOLD DOWN SPRINGS FOR ABOVE

Stock No.	Mfr's Type	Poles	EACH 1-9	10-49	50-99	100-Up
886-1440	20C249	2	.10	.07	.06	.05
886-1441	20C250	4	.10	.07	.06	.05
886-1442	20C251	6	.10	.07	.06	.05

RELAY ACCESSORIES AND SOCKETS



8-Pin "P" Case. Type 35D070. Clear plastic; octal base. For mounting rectifiers, capacitors. 4 screws. 2 x 1 13/32 x 1 19/32". (5.08x3.57x3.57cm).
886-1460. Wt. 1 oz. (28gm) ... **1-24** .. **Ea. 1.65**
25-49 ..... **Each .84** **50-Up** ..... **Ea. .79**

11-Pin "P" Case. Type 20D072.
886-1462. 1-24 ..... **Each 2.00**
25-49 ..... **Each 1.01** **50-Up** .... **Each .95**

KCP-KRP. Hold down Spring. Type 20C176. Wt. 3 oz. (85gm).
886-1416 1-9 .. **Ea. .35** **10-24** .. **Ea. .21** **25-Up** .. **Ea. .20**

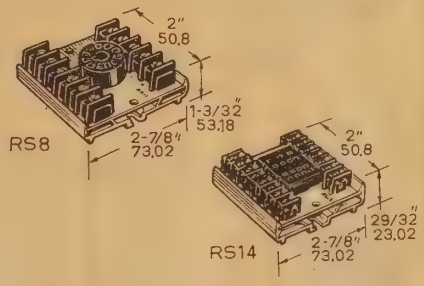
RELAY COVERS



Grey enameled heavy steel. Has pre-drilled mounting holes in base and knockouts for ½" (1.27 cm) dia. conduit.
MR Cover #35D130. Size: 2 9/32 x 2 5/8 x 3 3/8". (9.21x6.59x6.03cm). Wt. 8½ oz. (241gm).
PRD Cover #35D013. Size: 3 1/8 x 3 3/8 x 5 9/16". (13.49x8.57x7.94cm). Wt. 1 lb. (454gm).

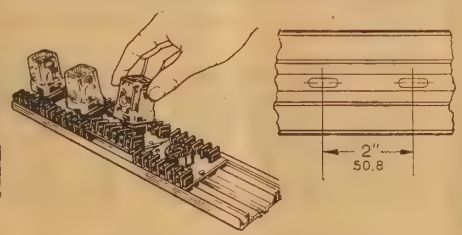
Stock No.	Mfr's Type	Use With	EACH 1-9	10-24	25-49	50-Up
886-1455	35D013	PRD	10.33	5.51	5.23	4.96
886-1470	35D130	MR	6.90	3.68	3.50	3.31

RELAY SOCKET ASSEMBLIES



PC track-mounted socket assemblies (up to 24) snap vertically in or out of 48" pre-punched vinyl track (below). Glass epoxy G-10 board, wave soldered and coated. Barrier type terminal blocks with screws are permanently marked. RS14, -15 for miniature 4PDT relays with 2 coil leads and gnd. have 2-56 wire clamp for wire sizes to #16. Others, 6-32 screws for wire to #12, RS8 for 2PDT; RS11, -12 for 3PDT. Av. shpg. wt. 4 oz.

Stock No.	Mfr's Type	Contacts	A	V	Size, Inches WxDxH	EACH
764R1008	RS8	Octal	10	250	2 5/8 x 2 x 1 3/32	3.92
764R1011	RS11	11	10	250	2 5/8 x 2 1/16 x 1 3/32	5.35
764-1012	RS12	11	10	250	2 5/8 x 2 1/16 x 1 1/16	6.12
764-1014	RS14	14	5	125	2 5/8 x 2 x 29/32	7.82
764-1015	RS15	15	5	125	2 5/16 x 2 1/4 x 29/32	8.22



PRE-PUNCHED VINYL TRACK

2" (5.08cm) center-to-center mounting slot dimension. Mount with 2 or 3 holes per track. Cut to any length. Wt. 6 oz. (170gm).

Stock No.	Type	WxL In.	WxL CM	For Sockets	EACH
764-1101	TR1	2¾ x 48	5.56x122	RS15 only	4.00
764R1102	TR2	2¾x48	6.99x122	RS8-11-12-14-16	4.63

SOCKETS FOR KH SERIES



For KHS and KHU Series relays. 27E006, 4PDT solder terminal socket; 27E007, 4PDT printed circuit socket; 27E166, 4PDT screw terminal socket. *hold-down spring. 1 oz.

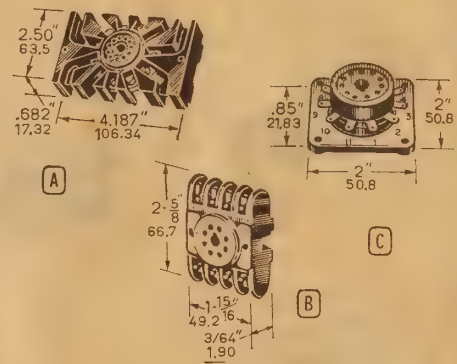
Stock No.	Mfr's Type	Socket Term.	EACH 1-9	10-24	25-49	50-Up
886R1410	27E006	Solder	1.23	.79	.75	.71
886-1411	27E007	P.C.	1.28	.82	.78	.74
886-1404	27E166	Screw	11.83	7.57	7.19	6.81
886-1412	20C217	*	.23	.15	.14	.13
886-1409	24A032	Retainer	.08	.07	.06	.05

MOUNTING STRIP

NEW!

Type 37D633 will mount 16 KH sockets (except 27E166) in two lengths of aluminum strip, each measuring 10.9x2.5x.062".
886-1495. 1-9 ..... **Each 1.63** **10-24** ..... **Each .93**
25-49 ..... **Each .88** **50-Up** ..... **Each .84**

SOCKETS FOR KCP, KRP, KRP-N, KAP



Amphenol Barrier Type Sockets. For KAP, KCP, KRP, and KRP-N relays. For SP and DP types, order octal 713-5003. For 3-pole, order 11-pin, 713-5017.

Amphenol Standard Sockets. For KAP, KCP, KRP, KRP-N. For SP and DP relays, order octal 713-2810. For 3-pole relays, order 11-pin 713-2815. See page 43.

RELAY SOCKETS

(A) **TYPE 146-817.** 11-contact melamine socket for most 11-pin relays. Replaceable contacts on ¾" terms (screw-type) rated 10 A @ 600 V rms. Two .156" mnt. holes, 3⅞" ctrs. Four tie points. 1 lb.
713R5017. 1-24 ... **Each 7.25** **25-49** ..... **Each 5.47**
50-99 ..... **Each 4.56** **100-Up** ..... **Each 3.96**

BARRIER-TYPE SOCKETS

(B) Barrier-type octal relay sockets have max. EIA working voltage of 2000 DC. Bronze cloverleaf contacts—each rated 8 A. Inter-electrode cap., 2.6 pF 8 screw terminals. Top mnt., except *bottom mnt. †4 molded-in threaded insert for tie points. ⅜4 x 1 15/16 x 2⅝". Shpg. wt. 8 oz.

Stock No.	Mfr's Type	EACH 1-24	25-49	50-99	100-Up
713R5003	146-103	2.54	2.48	2.12	1.84
713-5004	146-104†	4.15	3.14	2.61	2.27
713-5011	146-293*	4.00	2.54	2.12	1.84
713-5012	146-204*†	4.95	3.14	2.61	2.27

11-CONTACT RELAY SOCKET

(C) **TYPE 2811.** Above-chassis mount. Diallyl phthalate base, socket. Beryllium copper contacts rated 600 volts rms at 10 amps. Size, 2 x 2 x .85". Shpg. wt. 5 oz.
885-0605. 1-9 ..... **Each 7.23** **10-24** ..... **Each 3.85**
25-49 ..... **Each 3.47** **50-Up** ..... **Each 3.27**

12-PIN PLUG-IN RELAY SOCKET



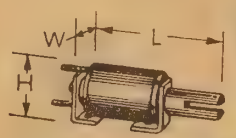
TYPE 27390. Twelve terminal socket accepts types 211, 219, 235, 236, 237, 255, 349, and RSX alarm relays. Overall dimensions. 2 21/32 x 2 3/16 x 27/32".
929-2030. Each ... 6.98 10-Up ... 3.49

See Page 43 For Other Multi-Purpose Sockets

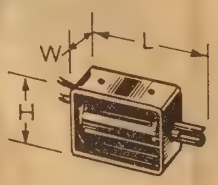
Solenoids

INDUSTRIAL AC AND DC SOLENOIDS

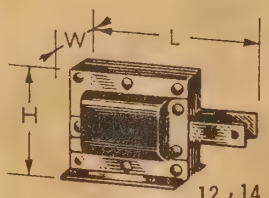
Solenoids in a wide selection of sizes for AC or DC applications. Types 11 and 28 are for either AC or DC voltages. Laminated solenoids Types 12, 14, 16 and 18 are for AC operation only. Tabular pull/push are for DC operation only. Choose from *Intermittent or †Continuous styles; intermittent-duty coils should not be energized for more than 3 consecutive minutes or be permitted to rise more than 85°C above 25°C ambient without time for cooling between cycles; continuous-duty types will not have a temperature rise of more than 85°C at rated voltage and ambient.



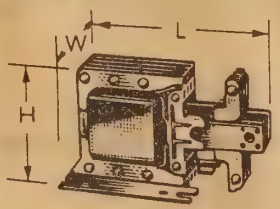
1A1



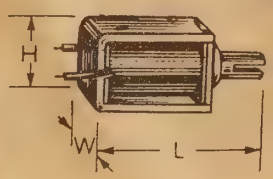
4, 11



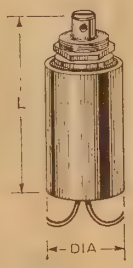
12, 14

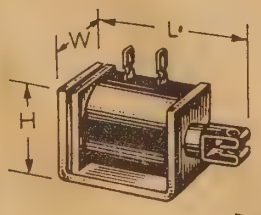


16, 18



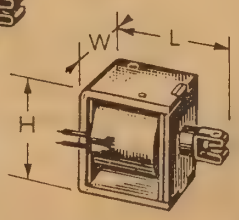
22





24

PULL TYPES TUBULAR



28

AC TYPES (SPECIFY TYPE NO., VOLTS AND DUTY)

*INTERMITTENT †CONTINUOUS

Stock No.	Mfr's Type	Volts	Ohms	Stroke and Lift Ounces@Inches		Size, (HxWxL)		Shpg. Wt., Oz.	EACH			
				Min.	Max.	In.	MM		1-9	10-24	25-49	50-Up
802-1003	1A1*	120	300	8@1/8	2@1/2	$1^{1}/_{16}x1^{5}/_{32}$	26.98x29.36	4½	8.40	5.83	5.54	5.25
802-1032	4†	120	133	8@1/8	4@$1^{1}/_{4}$	$1^{5}/_{8}x1^{7}/_{16}x2^{1}/_{16}$	41.27x36.51x53.38	14½	11.34	7.88	7.49	7.09
802-1057	11†	24	8	12@1/8	10@3/4	$1^{3}/_{16}x1^{5}/_{16}x1^{7}/_{8}$	30.16x23.81x47.62	7½	6.96	4.83	4.59	4.35
802-1070	11*	120	85	40@1/16	10@3/4	$1^{3}/_{16}x1^{5}/_{16}x1^{7}/_{8}$	30.16x23.81x47.62	7½	6.96	4.83	4.59	4.35
802-1061	11†	120	200	12@1/8	6@3/4	$1^{3}/_{16}x1^{5}/_{16}x1^{7}/_{8}$	30.16x23.81x47.62	7½	6.96	4.83	4.59	4.35
802-1082	12*	120	100	40@1/8	16@3/4	$1^{7}/_{16}x1^{1}/_{4}x1^{5}/_{8}$	36.51x31.75x41.27	6	11.46	7.96	7.56	7.16
802-1080	12†	120	150	24@1/8	10@3/4	$1^{7}/_{16}x1^{1}/_{4}x1^{5}/_{8}$	36.51x31.75x41.27	6	11.46	7.96	7.56	7.16
802-1087	14*	120	11	110@1/8	50@$1^{1}/_{2}$	$2^{1}/_{16}x1^{15}/_{16}x27/_{16}$	53.38x49.21x61.91	19	18.58	12.90	12.26	11.61
802-1085	14†	120	18	75@1/8	35@$1^{1}/_{2}$	$2^{1}/_{16}x1^{15}/_{16}x27/_{16}$	53.38x49.21x61.91	19	18.58	12.90	12.26	11.61
802-1094	16*	120	41	110@1/8	30@3/4	$1^{1}/_{2}x1^{1}/_{4}x1^{5}/_{8}$	38.1x31.75x41.27	7½	10.28	7.14	6.78	6.43
802-1090	16†	120	85	60@1/8	15@3/4	$1^{1}/_{2}x1^{1}/_{4}x1^{5}/_{8}$	38.1x31.75x41.27	7½	10.28	7.14	6.78	6.43
802-1104	18*	120	8.8	340@1/8	200@7/8	$2^{3}/_{32}x1^{13}/_{16}x2^{1}/_{2}$	53.18x46.03x63.5	16½	16.16	11.22	10.66	10.10
802-1100	18†	120	19.7	150@1/8	100@7/8	$2^{3}/_{32}x1^{13}/_{16}x2^{1}/_{2}$	53.18x46.03x63.5	16½	16.16	11.22	10.66	10.10
802-1106	18*	240	45	340@1/8	200@7/8	$2^{3}/_{32}x1^{13}/_{16}x2^{1}/_{2}$	53.18x46.03x63.5	16½	16.24	11.28	10.72	10.15
802-1102	18†	240	78	150@1/8	100@7/8	$2^{3}/_{32}x1^{13}/_{16}x2^{1}/_{2}$	53.18x46.03x63.5	16½	16.24	11.28	10.72	10.15
802-1130	24†	120	500	10@1/16	4@5/8	$1x2^{27}/_{32}x1^{1}/_{4}$	25.4x21.43x31.75	3	6.04	4.20	3.99	3.78
802-1156	28†	120	400	24@1/16	7.0@1/2	$1^{3}/_{16}x1^{7}/_{32}x1^{1}/_{8}$	30.16x30.95x28.57	3½	6.58	4.57	4.34	4.11

DC TYPES (SPECIFY TYPE NO., VOLTS AND DUTY)

*INTERMITTENT †CONTINUOUS

Stock No.	Mfr's Type	Volts	Ohms	Stroke and Lift Ounces@Inches		Size, (HxWxL)		Shpg. Wt., Oz.	EACH			
				Min.	Max.	In.	MM		1-9	10-24	25-49	50-Up
802-1047	4HD*	24	15	156@1/8	10@$1^{1}/_{4}$	$1^{5}/_{8}x1^{7}/_{16}x2^{3}/_{16}$	41.27x36.51x55.56	15	11.34	7.88	7.49	7.09
802-1042	4HD†	24	50	110@1/16	8@3/4	$1^{5}/_{8}x1^{7}/_{16}x2^{3}/_{16}$	41.27x36.51x55.56	15	11.34	7.88	7.49	7.09
802-1064	11*	6	2	55@1/16	5@3/4	$1^{3}/_{16}x1^{5}/_{16}x1^{7}/_{8}$	30.16x23.81x47.62	7½	6.88	4.78	4.54	4.30
802-1059	11†	24	72	40@1/16	4@5/8	$1^{3}/_{16}x1^{5}/_{16}x1^{7}/_{8}$	30.16x23.81x47.62	7½	6.88	4.78	4.54	4.30
802-1115	22*	6	4	20@1/16	4@1/4	$3/4x3/4x1^{5}/_{32}$	19.05x19.05x29.36	2½	4.54	3.15	2.99	2.84
802-1111	22†	6	9	13@1/16	2@1/4	$3/4x3/4x1^{5}/_{32}$	19.05x19.05x29.36	2½	4.54	3.15	2.99	2.84
802-1113	22†	24	144	13@1/16	2@1/4	$3/4x3/4x1^{5}/_{32}$	19.05x19.05x29.36	2½	4.60	3.20	3.04	2.88
802-1150	28†	12	27	24@1/16	2@1/4	$1^{3}/_{16}x1^{5}/_{16}x1^{1}/_{8}$	30.16x23.81x28.57	3½	6.42	4.46	4.24	4.01

Please Specify Allied Stock Number, Manufacturer's Type Number, Volts and Duty.

DC PULL-TYPE OR AC/DC PUSH-TYPE SOLENOIDS

12, 24 AND 120 VOLT AC/DC PUSH-TYPES

Intermittent or continuous duty. Lengths of the push rods are equal to the maximum stroke length specified. Type 11P and 28P are approximately 20% less power than listed. Other specifications same as Tubular Pull Types.

Stock No.	Mfr's Type	Duty	Volts	Ohms	Strokes and Lift Ounces@Inches		Sizes, (HxWxL)		Shpg. Wt. Oz.	EACH			
					Min.	Max.	In.	MM		1-9	10-24	25-49	50-Up
802-1062	11P	Cont.	24AC	8	12@1/8	6@3/4	$2x1^{3}/_{16}x1^{1}/_{8}$	50.8x30.1x47.62	7½	8.08	5.61	5.33	5.05
802-1065	11P	Cont.	120AC	200	40@1/16	4@5/8	$2x1^{3}/_{16}x1^{7}/_{8}$	50.8x30.1x47.62	7½	8.32	5.78	5.49	5.20
802-1096	16P	Int.	120AC	41	110@1/8	30@3/4	$1^{1}/_{2}x1^{1}/_{4}x1^{5}/_{8}$	38.1x31.75x41.27	7½	12.28	8.53	8.10	7.68
802-1097	16P	Cont	120AC	85	60@1/8	15@3/4	$1^{1}/_{2}x1^{1}/_{4}x1^{5}/_{8}$	38.1x31.75x41.27	7½	12.28	8.53	8.10	7.68
802-1107	18P	Int.	120AC	8.8	340@1/8	200@1/8	$2^{3}/_{16}x1^{13}/_{16}x2^{1}/_{2}$	55.56x46.03x63.5	16½	19.80	13.75	13.06	12.38
802-1108	18P	Cont.	120AC	19.7	150@1/8	100@1/8	$2^{3}/_{16}x1^{13}/_{16}x2^{1}/_{2}$	55.56x46.03x63.5	16½	19.80	13.75	13.06	12.38
802-1147	28P	Cont.	12DC	27	24@1/16	3@3/8	$1^{3}/_{16}x1^{5}/_{16}x1^{1}/_{8}$	30.15x23.80x28.57	3½	7.12	4.95	4.70	4.46

TUBULAR PULL TYPES—12 AND 24 VDC

Intermittent types should not be energized over 2 minutes or allowed to rise above 85°C above 25°C ambient temp. without cooling. Continuous types will not have temperature rise of more than 85°C above 25°C ambient @ rated voltage. Threaded bushing. Life, 10,000,000 operations. *Push-type.

Stock No.	Mfr's Type	Duty	Volts	Ohms	Strokes and Lift Ounces@Inches		Sizes, (HxWxL)		Shpg. Wt. Oz.	EACH			
					Min.	Max.	In.	MM		1-9	10-24	25-49	50-Up
802-0538	TP8X16*	Int.	24DC	15	64@1/16	6@1¼	1x2	25.4x50.8	1	13.24	9.19	8.73	8.27
802-0560	T4X12	Int.	24DC	38	15@1/32	1@¾	½x1½	12.7x38.1	9	8.90	6.18	5.87	5.56
802-0565	T6X12	Cont.	12DC	41	16@1/16	1.5@½	¾x1½	19.05x38.1	14	9.28	6.45	6.13	5.81
802-0573	T8X16	Cont.	12DC	26	30@⅛	2@⅝	1x2	25.4x50.8	6	11.22	7.79	7.40	7.01
802-0574	T8X16	Cont.	24DC	105	30@⅛	2@⅝	1x2	25.4x50.8	6	11.22	7.79	7.40	7.01
802-0584	T12X19	Int.	24DC	9.5	165@⅛	5@½	1½x2⅜	38.1x60.32	10	16.24	11.28	10.72	10.15
802-0582	T12X19	Cont.	24DC	59	80@⅛	1@1¼	1½x2⅜	38.1x60.32	10	16.24	11.28	10.72	10.15

CROSS-REFERENCE GUIDE—SOLENOIDS

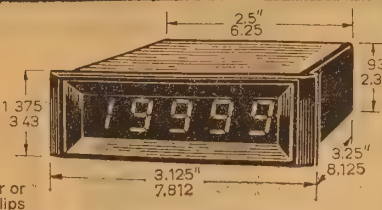
Allied Stock No.	Guardian Part No.	Dormeyer Part No.
802-1130	24-Cont Duty-120VAC	B19-1-A-3
802-1113	22-Cont Duty-24VDC	B19-253-A-3
802-0565	T6X12-Cont Duty-12VDC	P4-1L
802-0573	T8X16-Cont Duty-12VDC	P6-1L
802-0574	T8X16-Cont Duty-24VDC	P6-2L
802-1090	16-Cont Duty-120VAC	1000-M-1
802-1094	16-Int Duty-120VAC	1500-M-1
802-1100	18-Cont Duty-120VAC	2005-M-1
802-1104	18-Int Duty-120VAC	2255-M-1

Prices Subject to Change – We Always Ship at the Lowest Price in Effect

Electro-Mechanical and Solid-State Counters

FOUR AND ONE-HALF DIGITS

PC-4 SOLID-STATE EVENT COUNTER



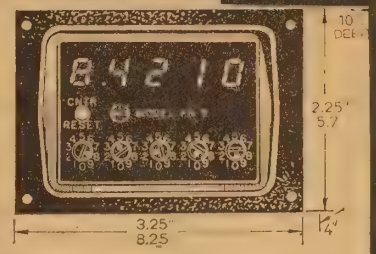
The PC-4 is an all solid-state event counter or totalizer. Designed for panel mounting; clips are used to eliminate screw holes on the panel face and digital readout. Instrument will totalize electronic pulse or contact closure inputs and display the total count up to 19999 events. Programmable decimal. Multiplexed BCD output. Molded-plastic case. Weight, 4 oz. (113 gm).

667-3000. 1-4 ..... **Each 59.95**
5-9 ..... **Each 56.95** **10-Up** ... **Each 54.00**
Type 50-30C-10. Connector for above.
750-1160 ..... **Each 4.93**

SPECIFICATIONS

Speed: Logic Level Input: 0-200,000 per sec. **Contact Closure:** 0-300 per sec. **Input Signal Amplitude:** Logic Level Input: +3.0V to +15V. **Contact Closure:** Open to ground for count. **Display:** 0.3" high LED. **Power Requirements:** +5 vdc (±5%) @ 0.75 W. **Reset:** Negative-going to low (gnd) from logic level or switch.

PR-5 DIGITAL PRESET COUNTER



Ideal for replacing your old mechanical counter. Solid-state LSI design. For totalizing, batch counting, digitizing, timing, rate frequency measurement, process control, more. Electronic pulse-up to 500kHz (+3V to +15V) or 300 contact-closures/seq. Unlimited number of preset count. Five-decade count displayed by 0.3" high LED's. Reset capability; front panel pushbutton switch or external contact-closure. Input impedance: 40 Kilohms. Power Requirements: +12VDC (±5%) @ 150 mA. Operating Temp.: 0°C to 50°C. Weight: 4.75 oz. (135gms.).

667-4000. 1-3 ..... **Each 163.90** **4-Up** ..... **Each 155.75**
667-6050. Set of two connectors for PR5 ..... **Each 7.50**

COUNTER REPLACEMENT CHART

NON-RESET TYPES

Stock No.	Redington No.	ITT No.	Durant No.	Veeder Root No.	Remarks
620-0026	2-1525 115 AC	CE40AN502	N/A	743795-001	.....

RESET TYPES

620-0028	2-1274 115 AC	CE40AS402	4Y9434-B	I 150704	.....
620-0030	P3-1284 24 AC	CE40BS401	4Y9434-B	0-150704 24 AC	.....
620-0032	P2-1284 115 AC	CE40BS402	4Y9434-PB	0-150704 115 AC	.....
620-0070	3-1006 24 AC	CE900AS601	6YIMF 24 AC	744396-013	.....
620-0072	2-1006 115 AC	CE900AS602	6YIMF 120 AC	744396-011	.....
620-0074	P3-1006 24 AC	CE900BS601	6YIMFPM 24 AC	744396-213	.....
620-0076	P2-1006 115 AC	CE900BS602	6YIMFPM 115 AC	744396-211	.....
620-0165	P2-1026 115 AC	CE900BK602	6Y12MFPM 120 AC	744396-241	.....

MINIATURE PUSHBUTTON TOTALIZERS

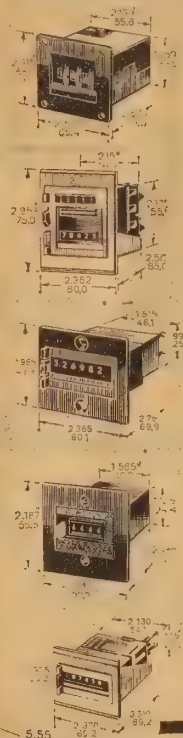
Stock No.	Redington No.	Hecon No.	Sodeco No.	Veeder Root No.	Remarks
620-1000	F8-3206 24 DC*	G0404-465-4	RG 162A	744096-316	*Complete Assembly
620-1100	F2-3106 115 AC*	G0404-489-1	RG 163A	744096-311	*Complete Assembly

Stock No.	Redington No.	ITT No.	Sodeco No.	Veeder Root No.	Remarks
620-1500	R8-3206 24 DC	.....	N/A	N/A	6 figure
620-1510	R2-3106 115 AC	.....	N/A	N/A	6 figure
620-1515	R8-3204 24 DC	.....	N/A	N/A	4 figure
620-1520	R2-3104 115 AC	CE59BP402	N/A	N/A	4 figure

PREDETERMINING COUNTERS

Stock No.	Redington No.	Hecon No.	Sodeco No.	Veeder Root No.	Remarks
620-2105	F8-5205 24DC*	G0422-464-4	RP 112A	744195-316	*Complete Assembly
620-2005	F2-5105 115 AC*	G0422-489-1	N/A	744195-311	*Complete Assembly

MINIATURE INSTRUMENT PANEL TOTALIZERS



MODEL P-1063. This 3-figure, panel mount, subtractive predetermining counter is designed for use where a different predetermined number is required after each operation. Counter features bi-directional thumb-wheel-preset. Operating life in excess of 25 million counts. Steel frame. UL listed and C.S.A. approved.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
620-2200	P2-1063 115AC	46.20	39.25	36.95	34.65
620-2250	P8-1063 24DC	39.00	33.15	31.30	29.25

MODEL 5005. 5 figure, panel mount, predetermining counter has pushbutton reset. Operating life in excess of 100,000 actuations. Die-cast zinc alloy mounting and counter frame.

620-2005	F2-5105 115AC	88.20	74.95	70.55	66.15
620-2105	F8-5205 24DC	82.70	70.30	66.15	62.05

MODEL F300 COUNTER. A 6-figure pushbutton reset electro-mechanical unit with panel-mounting frame, plug-in socket. Rated 25 Hz DC and 16 Hz AC. Life expectancy exceeds 200,000,000 counts. Decorative plate conceals mounting screws for "clean" look. Use where front-of-panel mounting, plug-in replacement counter features are desired. Shpg. wt., 6 oz.

620-1100	F2-3106 115VAC	53.80	45.75	43.05	40.35
620-1000	F8-3206 24VDC	46.65	39.65	37.30	35.00

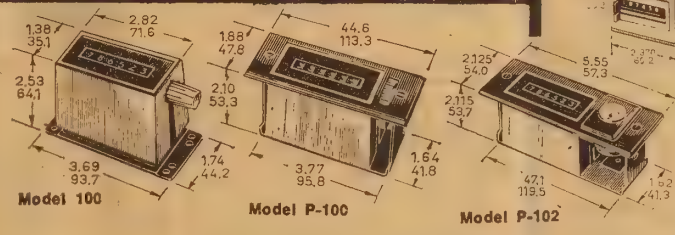
MODEL PR-3704 COUNTER. 4-figure, pushbutton reset electro-mechanical counters for panel mounting in equipment with limited dimensions. Requires no lubrication.

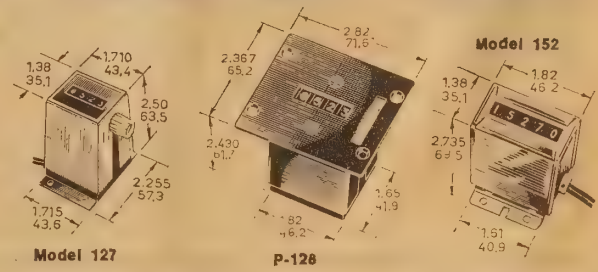
620-2300	PR2-3704 115AC	19.10	16.25	15.30	14.35
620-2350	PR8-3704 24DC	17.95	15.25	14.35	13.45

MODEL R300 COUNTER. A 6- or 4-figure pushbutton reset unit for front or rear panel mounting. Rated 25 Hz DC, 16 Hz AC. Life, over 200,000,000 counts. For fixed panel use where plug-in feature is not required. Shpg. wt., 8 oz. *6 figures. †4 figures.

620-1510	R2-3106 115 VAC*	42.85	36.40	34.30	32.15
620-1500	R8-3206 24 VDC*	37.00	31.45	29.60	27.75
620-1520	R2-3104 115 VAC†	47.85	38.90	36.80	34.65
620-1515	R8-3204 24 VDC†	42.00	33.95	32.10	30.25

ALLIED GENERAL PURPOSE ELECTRICAL COUNTERS





MODEL 100 BASE-MOUNT COUNTER. A 6-figure, reset, general-purpose, electro-mechanical counter which will count any movement that can be sensed electrically. Rated at 1000 counts/minute. Operating life exceeds 50,000,000 counts. Materials and design characteristics have been selected to assure a long and trouble-free life even in adverse industrial environments. Strong die-cast frame and housing provide rigid support, accurate alignment of operating components. Maintenance-free—all rotating parts are self-lubricating. Wt. 19 oz.

MODEL P-100 PANEL-MOUNT COUNTER. A 6-figure, reset counter for use in single- or multiple-unit panel mount applications. Rated at 1000 counts/minute and built to assure a life in excess of 50,000,000 counts. Exclusive **bold** numbers assure fast and accurate readings. Mounting features facilitate replacement of existing general-purpose counters without drilling new holes or using adapters. Same electro-mechanical features as Model 100 above. 18 oz.

MODEL P-102 PANEL-MOUNT KEY-RESET COUNTER. A 6-figure key-reset, electro-mechanical counter for use where resetting must be restricted to only a few persons. Rated at 1000 counts/minute with a life expectancy of over 50,000,000 counts. Styled for maximum readability even under poor viewing conditions. Space-saving decorative panel provides a "Thin-Line" look to harmonize with modern equipment. 22 oz.

MODEL 127 BASE-MOUNT COUNTER. A 4-figure, reset, electro-mechanical counter for use where space is limited but accuracy and top reliability are still mandatory. Rated at 1000 counts/minute with an operating life of over 50,000,000 counts. Big easy-to-read numerals for rapid, but correct, reading even when the counter is mounted above, below or to one side of eye level. Easy to install. Recommended for use where totalizing to 9999 before repeating is adequate. 11 oz.

MODEL P-128 PANEL-MOUNT COUNTER. A 4-figure reset counter incorporating all the standard operating and electrical features of Model 127, above. A panel plate permits interchangeability with competitive counters. Mounting plate is attached directly to the cover with two screws. Shpg. wt., 10 oz.

MODEL 152 BASE-MOUNT NON-RESET COUNTER. A 5-figure electro-mechanical counter with a unique combination of low cost and high reliability. Ideal for test labs, coin-operated equipment and other moderate-duty appliances. All-steel case houses a proven drive mechanism requiring no maintenance. Rated at 500 counts/minute with a life of 5,000,000 counts. Large white numerals on black wheels for fast and easy reading with poor light 6½ oz.

ALL MODELS U.L. LISTED AND CSA APPROVED

PRICE CHART FOR ALLIED ELECTRICAL COUNTERS

MODEL 100

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
620-0072	2-1006 115 VAC	30.45	25.90	24.35	22.85
620-0070	3-1006 24 VAC	35.45	28.40	26.85	25.35

MODEL P-100

620-0076	P2-1006 115 VAC	33.25	28.25	26.60	24.95
620-0074	P3-1006 24 VAC	38.25	30.75	29.10	27.45

MODEL P-102

620-0165	P2-1026 115 VAC	46.00	39.10	36.80	34.50

MODEL 127

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
620-0028	2-1274 115 VAC	24.05	20.45	19.25	18.05

MODEL P128

620-0032	P2-1284 115 VAC	24.75	21.05	19.80	18.55
620-0030	P3-1284 24 VAC	29.75	23.55	22.30	21.05

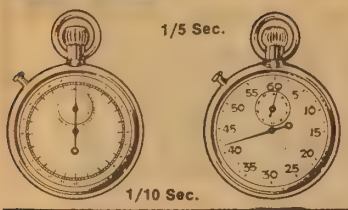
MODEL 152

620-0026	2-1525 115 VAC	10.26	7.70	6.15	5.80

See Page 2 for the Allied Electronics Facility Nearest You

Elapsed Time Indicators and Counters

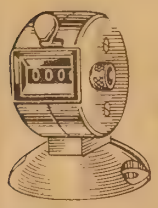
ONE-JEWEL STOPWATCHES



Type 63-611: 1/5 Second. Outer dial registers up to 60 sec. Inner dial up to 30 min. Start, Stop, Continue controls on crown. Side-button return to zero. 1 lb.
622-0001 ..... Each 26.15

Type 63-635: 1/10 Second. Outer dial registers up to 30 sec. Small hand, up to 15 min. Start, Stop, Continue controls on crown. Side-button return to zero. 1 lb.
622-0002 ..... Each 26.15

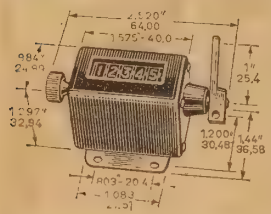
ALLIED TALLY 4 DIGIT COUNTER



Model 0055 counter fits in palm of hand or may be mounted on desk top for added versatility. Easy-to-use pushbutton lever provides fast, accurate "stop and start" action for 4-digit tallies, 0-9999. Reset knob instantly returns count to 0000 for greater convenience. Large white-on-black numerals make reading as easy as a quick glance. Housed in a durably constructed polished chrome steel case to resist stains and corrosion. Ideal for any application where meticulous accounting is a must. (Mounting screws not included.) Base Mt.; 2¼" dia. Wt. 4½ oz. See Below for Pricing.

706-0055. Type 0055. 1-9 ..... Each 6.10
10-24 ... Ea. 5.42 25-49 ... Ea. 4.49 50-Up ... Ea. 3.75

ALLIED LOW COST RESET COUNTER



Model 0050 Ratchet counter features quick reset and 5-digit function. Maximum counting speed is 500 per minute. Efficiency and dependability make this counter an asset in applications where economy is a must. Enclosed in a handsomely styled black case. Overall size: 1½x2½x1¼" (38.1x63.5x31.7). Weight ½ lb. (.227kg).

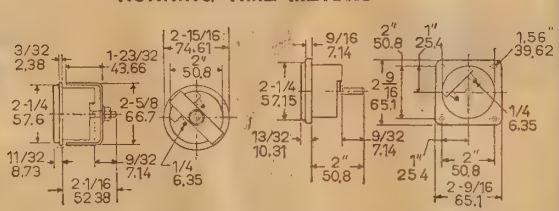
- Ratchet Model
- 5 Digit Capacity

706-0050. Type 0050. 1-9 ..... Each 8.00
10-24 ... Ea. 7.11 25-49 ... Ea. 5.82 50-Up ... Ea. 4.92

RUNNING TIME METERS



C-6W





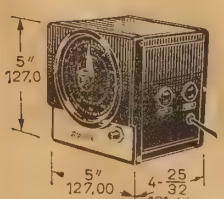
C-9

Non-resettable counters. In electrical apparatus wired in parallel with main On-Off switch; on non-electrical equipment wired between ground and primary of ignition coil; on diesel equipment connected to starting battery. C-6W heavy duty, with rugged pulse wound movement. C-9 powered by synchronous motor. C-9 flange mtg. with 4 screws in 2¾" cutout. C-6W mtg. by bracket. Require 3⅜" behind panel. C-6W universal from 4-40 VDC. C-9—115 VAC. Wt. 1 lb. Five figures in hrs. and tenths.

- Non-Resettable
- For Use With Electrical, Non-Electrical or Diesel Equipment

Stock No.	Mfr's Type	EACH 1-4	5-9	10-24	25-Up
815-0073	C-6W	23.00	20.70	19.55	18.40
815-0042	C-9	23.00	20.70	19.55	18.40

INDUSTRIAL STOP CLOCKS



Measure time intervals for process and production controls, time study and many other industrial applications. Synchronous motor, cone clutch which provides exceptional pull-in speed, 360° engagement, and automatic compensation for any wear that may occur are only a few of the advanced features. Clutch pull-in time is so rapid that no compensation in the dial is required for inaccuracy. Remote start-stop and reset receptacles on side of case. Front panel reset button. Reset time: 0.010 second. Size, 5 x 5 x 4²⁵⁄₃₂". 115 V, 60 Hz AC. Wt. 5 lbs.

MODEL SC-100. Measures 0.01 second to 60 seconds. Accuracy: 0.01 second.

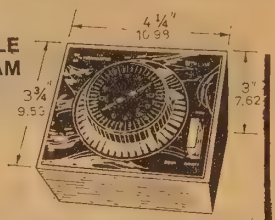
MODEL SC-60. Measures 1 second to 60 minutes. Accuracy: 0.1 second.

- Extremely Fast Clutch Pull-in Time
- Synchronous Motor
- Automatic Wear Compensation

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
815-0435	SC-100	89.00	81.88	76.54	71.20
815-0432	SC-60	89.00	81.88	76.54	71.20

ENERGY SAVING SECURITY TIMERS

MULTIPLE PROGRAM TIMER



A 24-hr. timer with 4 trippers—2 "on", 2 "off". Max. on time: 23½ hrs. Min. on time: ½ hr. 125 VAC, 1875 watts, 15 amps.

Stock No.	Type No.	Description	EACH 1-11	12-Up
818-4011	EB-11	Timer	14.95	9.72
818-4021	156EB1945A	Extra Trippers, 4 per set	.75	.49

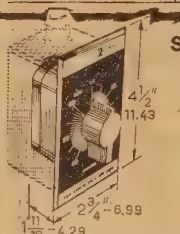
24-HOUR TIMER



Repeats cycle every 24 hours. Max. "On" time: 22¾ hrs. Min. "On" time: ½ hr. With 5-ft. cord. ⅓ H.P. motor load, 125 VAC, 1875 Watts, 15 amps (12 amps Tungsten). U.L. list.

Stock No.	Type No.	Description	EACH 1-11	12-Up
818-1030	E911-16	Timer	12.95	11.05

SPRING-WOUND TIME SWITCH



- For 2-Wire Installation
- Uses No Energy
- For Heaters, Signs, Fans

Models with "Hold"* position provides continuous service without utilizing timer. 1 HP @ 125 VAC, 20 amps; 250 VAC, 10 amps.

Stock No.	Mfr's Type	Time Cycle	EACH 1-11	12-Up
818-0005	F5MH*	5 Min.	10.25	6.82
818-0060	F60MH*	60 Min.	10.25	6.82
818-0012	F12HH*	12 Hrs.	10.75	7.16
818-0015	F15M	15 Min.	10.25	6.82
818-0030	F30M	30 Min.	10.25	6.82

"SUPERCOP" VARIABLE TIMER



Compact 24-hr. automatic plug-in timer with variable timing. Easy to set. 1875 Watts, 15 Amp. Max. "On" 20½ hrs.; Min. "On" 2½ hrs. Manual on/off knob; color-coded time selector tabs and time dial for high visibility. UL listed.

Stock No.	Mfr's Type	Description	EACH 1-6	7-Up
818-5000	D711	24-Hr. Timer	10.95	8.95

SPRING-WOUND TIMERS



Loud Ring and Seven Second Long Ring Models accurately time any activity from 1 to 60 min. Tip and spill proof countertop base of unbreakable high-impact plastic. Large, easy-to-read numerals and minute markings. White w/black trim. Guaranteed for 5 yrs. Size; 3⅜" dia. x 1¾" high.

Stock No.	Type No.	Description	EACH 1-6	7-Up
818-0100	R10W	Loud Ring	8.70	7.45
818-0200	R20W	Long Ring	10.58	8.45

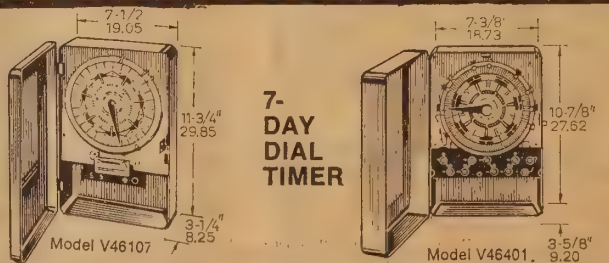
IN-WALL TIMERS



Install in any 2×3×2" (5.080×7.620×5.080 cm) outlet box. Has 2 "On", 2 "Off" trippers. Can add 10 "On" and 10 "Off" trippers. May be controlled manually. Max. "On" time: 23½ hrs. Min. "On" time: ½ hr. 120 VAC, 12A, 15A max. Extra trippers (818-4021) at left.

Stock No.	Type No.	Description	EACH 1-11	12-Up
818-1020	E1020	No Outlets; for SP Switch	17.95	15.52
818-1022	E1022	2 Outlets; 1 contin., 1 timed.	19.95	15.25

7-DAY DIAL TIMER

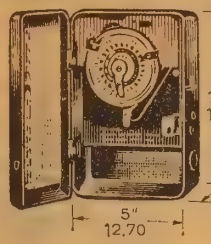


Seven day switch provides a different program every day of the week. For heating, air conditioning, ventilating systems, lights, pumps, motors, and other single to three-phase loads. Seven sets of trippers, 6-hour minimum between "OFF" trippers allows up to 4 "ON-OFF" operations per day. Minimum ON time, one hour; minimum OFF time, two hours. **Type V46401:** 4PST switch, rated 40 max. load amps per pole tungsten, 1 HP at 120 VAC; 690 VA pilot duty. Case 10⅞×7⅜×3⅝", drawn steel, gray finish. Shipping weight, 6½ lbs.
818-1570. Type V46401. 1-6 ..... Each 57.90 7-Up ..... Each 37.64
Type V46107: DPDT switch, 125 V 60 Hz, 40 amps per pole; 690 VA pilot duty. Case 11¾×7½×3¼", drawn steel, gray hammertone finish. Shipping weight 8 lbs.
818-1572. Type V46107. 1-6 ..... Each 57.90 7-Up ..... Each 37.64

Timers

TIMER CROSS REFERENCE CHART

Stock No.	Inter-matic	Paragon	Tork	Stock No.	Inter-matic	Paragon	Tork	Stock No.	Inter-matic	Paragon	Tork
818-1417	T101	4001-0	1191	818-1454	T175	4005-OS	7120	818-1570	V46401	7007-0	W300
818-1420	T103	4003-0	1962	818R1550	T1975	1015-ORS	8007	818-1572	V46107	7008-0	W220
818-1450	T171	.....	7100	818-1520	T573R	.....	7200H	.....	...	.....	.....
818-1452	T173	4003-OS	7200	818-1465	T185	8025-0	4100	.....	...	.....	.....



24-HOUR TIME SWITCHES

- **1 to 12 On-Off Operations Every Day**
- **Permits Timing From 1 to 23 Hours**

Type T101. For dependable automatic control of lighting, signs, process control, heating and cooling, etc. SPST switch rated 40 amp inductive, 4375 watts tungsten; 2 hp and 690 VA pilot duty. Large, easy-to-read dial. "Alloy-T" contacts handle surges up to 8 times the rating. Heavy gauge steel case with hinged cover, spring clasp with hole for padlock. Gray hammertone finish. U.L. Recognized; C.S.A. Listed. 125 VAC. Wt. 3 lbs. (1.360 kg).

818-1417. 1-9 ... Ea. 25.20 10-Up ... Ea. 16.38
Type T103. DPST timer; for 125VAC.
818-1420. 1-9 ... Ea. 28.35 10-Up ... Ea. 18.35
Type T171 "Skipper." Same as T101 but permits omitting selected days of weekly cycle. 125V.
818-1450. 1-9 ... Ea. 34.40 10-Up ... Ea. 22.36
Type T173. DPST type; for 125VAC.
818-1452. 1-9 ... Ea. 37.00 10-Up ... Ea. 24.05
Type T175. SPDT type; for 125VAC.
818-1454. 1-9 ... Ea. 37.00 10-Up ... Ea. 24.05

PROGRAM TIMER AND TIME SWITCHES

Type T1975 "Skipper" Program Timer. "Supervisor" with 96 trippers for 48 "on" and 48 "off" operations every 24 hours. Minimum interval, 15 minutes. For full-time control of heating, air conditioning, oil well pumps, poultry feeders, etc. "Skipper" feature omits selected days. Has 7-day Skipper wheel with handy push-pull tabs. SPDT switch rated 20 amps at 125 V, 60 Hz. U.L. Recog. Wt. 3¾ lbs. (1.701 kg).
818R1550 Ea. 55.10 10-Up Ea. 35.80

Type T573-R Heavy-Duty Time Switch. For indoor-outdoor mounting. 24-hour dial. Minimum on or off time 1 hour. Skip feature omits selected days of the weekly cycle. DPST contacts rated 55 amps inductive, 6875 watts per pole; 2 hp motor load. Raintight case. Size, 9⅜×6½×3⅝". (23.812×16.510×9.207 cm). Rated for 125 V, 60 Hz AC. Wt. 4 lbs. (1.814 kg).
818-1520 Ea. 59.25 10-Up Ea. 38.51

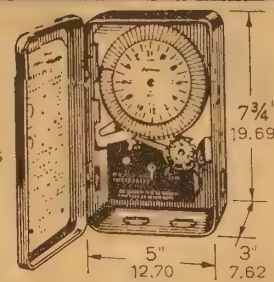
Type T185 Deluxe Time Switch. Up to 12 independently controlled "on-off" trippers. Adjusts from 10-60 minutes. Minimum interval, 2 hours. Can be used to handle a wide range of cycle operations. Rated 40 amps (4375 W.) tungsten at 125 VAC. With 3 trippers (1 for each cycle); up to 12 can be used. Rated for incandescent loads with surge over 8 times normal. 7¾×5×3". (19.685×12.700×7.620 cm). Wt 3 lbs. (1.360 kg).
818-1465 Ea. 49.25 10-Up Ea. 32.01

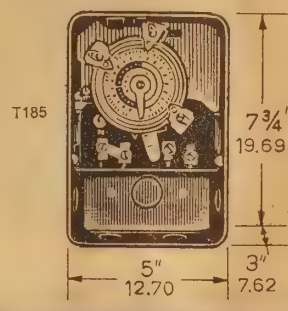
Type 156T1948A On-Cutoff Tripper. For "Skipper" types only. 3 oz. (85.050 gm).
818-1595 ..... Each 1.25

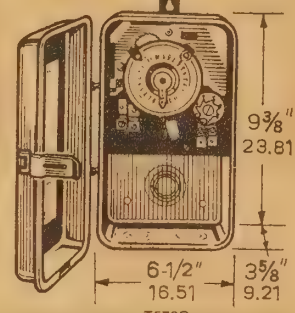
Type 156T1952A Skipping Screws. For "Skipper" types only. 8 oz. (226.8 gm).
818-1585. Pkg. of 2 ..... **Per Set .50**

Extra 156T1949A Tripper. (T185 only). Cam can be set for duration of "on-off" cycle.
818-1466. Wt. 4 oz. (113.4 gm) . **Each 3.50**

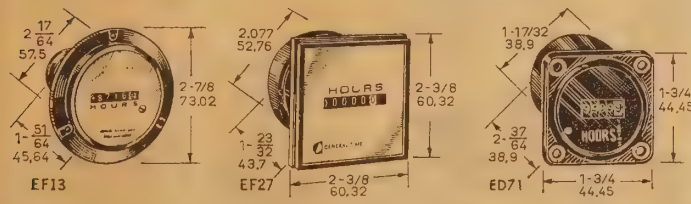
Type 156T1978A "On & Off" Trippers. For above switches (except T185)
818-1590. Wt. 2 oz. (56.7 gm). **Per Set .75**







ELAPSED TIME INDICATORS



- **Variety of Shapes and Mounting Styles**
- **Precision Synchronous Motor Driven**

Wide variety of meters for use where accurate time readings are required. All are synchronous-motor driven. Round, square bezel. Panel mount and rear mount available. Non-resettable, readout is digital with a range of five figures plus tenths; in hrs. and tenths or minutes and tenths *except 4 figures and tenths. Units are 120VAC and 240VAC, 60 Hz. Operating temp., −12°C to −55°C. Registers hours, tenths, unless otherwise noted. U.L. Recognized. NR types: non-reset. Diameter: EF13 NR, 2 17/64"; EF27 NR, 2 5/64"; ED71 NR, 1 17/32".

Model No.	Bezel Inches	Depth Inches	Max. W Motor Rating	Leads
EF13	2⅞ rd.	1 51/64	2.5	6"
EF27	2⅜ sq.	1 23/32	5.0	6"
ED71	1¾ sq.	2 37/64	2.5	11¼"

†Registers hours and tenths, except minutes and tenths, *except 4 figures and tenths, otherwise hours and tenths. All are non-reset.

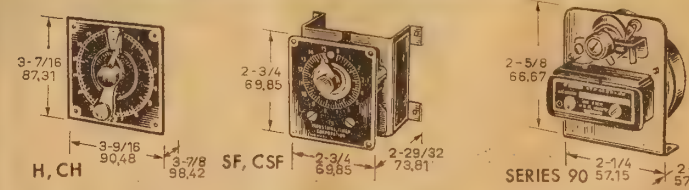
120 VOLTS AC 60 Hz

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
800-0110	EF1333†	16.37	12.55	11.75	11.10
800R0112	EF1335	16.37	12.55	11.75	11.10
800-0118	EF2733†	19.47	14.75	13.80	13.00
800-0120	EF2735	19.47	14.75	13.80	13.00
800-0108	ED7112*	33.71	27.70	25.95	24.50

240 VOLTS AC 60 Hz (Non-Reset)

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
800-0113	EF1335	19.47	14.75	13.80	13.00

HIGH-ACCURACY TIME-DELAY CONTROLS



Automatic reset units. For use where fixed or adjustable delay is needed between closing one circuit and opening or closing another. SPDT switch rated 10 amps at 115 VAC, with non-inductive load. "C" types have external clutch; others have clutch motor. H for front-panel mounting; SF for back-panel mtg.; all have 4-screw mtg. holes. Overall size: H, 3 7/16×3 9/16×3 7/8"; SF, 2¾×2¼×2 29/32". 110-120 V, 60 Hz AC. U.L. Recognized. Shpg. wt. 1½ lbs.

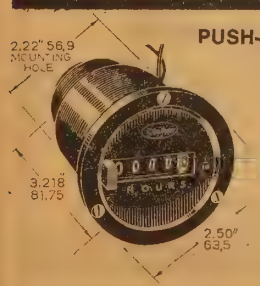
SERIES H AND SF TIME-DELAY TIMERS

Stock No.	Mfr's Type	Max. Time Cycle	Stock No.	Mfr's Type	Max. Time Cycle	EACH 1-9	10-24	25-49	50-Up
815-0075	H-6S	6 sec.	815-0070	CH-1M	1 min.	37.00	34.04	31.82	29.60
815-0076	H-15S	15 sec.	815-0072	CH-3M	3 min.	37.00	34.04	31.82	29.60
815-0109	SF-6S	6 sec.	815-0103	CSF-1M	1 min.	35.00	32.20	30.10	28.00
815-0110	SF-15S	15 sec.	815-0105	CSF-3M	3 min.	35.00	32.20	30.10	28.00
815-0111	SF-30S	30 sec.	815-0107	CSF-5M	5 min.	35.00	32.20	30.10	28.00

SERIES 90 TIME-DELAY TIMERS

Rugged timer for use in applications where the time-delay cycle is infrequently changed, or permanently fixed. Changes in time delay cycle are made by loosening set screw and offsetting one cam arm in relation to the other. Totally enclosed, snap-action SPDT switch contacts are rated at 10 amps at 115-230 volts AC. Overall size: (HWD): 2⅝x2¼x2¼". For 115V, 60 Hz AC. U.L. Recog. Wt. 1 lb.

Stock No.	Mfr's Type	Settings Min.	Max.	EACH 1-9	10-24	25-49	50-Up
815-0601	90-6S	½ sec.	6 sec.	21.00	19.32	18.06	16.80
815-0602	90-15S	1½ sec.	15 sec.	21.00	19.32	18.06	16.80
815-0603	90-30S	3 sec.	30 sec.	21.00	19.32	18.06	16.80
815-0604	90-60S	6 sec	1 min.	21.00	19.32	18.06	16.80



PUSH-BUTTON RESET ELAPSED TIME INDICATORS

SERIES 636. High accuracy motor with pushbutton mechanism for instant reset to zero. M 5-digit register. Mounts in 2.22" dia. panel hole. Unit is 3.2187" deep with 2.5" dia. round bezel. Total Count: **765-0636**, 9999.9 seconds; **765-0638**, 9999.9 minutes; **765R0639**, 9999.9 hours. For 115 volts, 60 Hz AC. Shpg. wt. ¾ lb.

Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
765-0636	636.X.E100	37.16	34.30	30.87	29.16
765-0638	636.X.L100	37.16	34.30	30.87	29.16
765R0639	636.X.S100	37.16	34.30	30.87	29.16

NON-RESET ELAPSED TIME INDICATORS

SERIES 635. High accuracy motor with 6-digit register; large numerals on 1" wheels. Mounts in 2.22" dia. panel hole. Unit is 2.7187" deep, with 2.69" dia. bezel. Total Count: **765-0632**, 99,999.9 minutes; **765R0634**, 99,999.9 hours. U.L. Listed. For 115 volts. 60 Hz AC. Shpg. wt ¾ lb **635G**, 2 1/2" Round



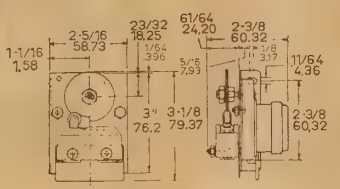
Stock No.	Mfr's Type	EACH 1-9	10-24	25-49	50-Up
765-0632	635-GL100	15.81	14.60	13.14	12.41
765R0634	635-GS100	15.81	14.60	13.14	12.41

Timers

SERIES RG21, SINGLE SWITCH



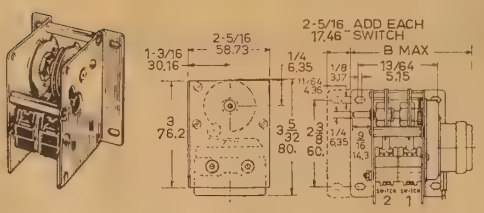
NEW!



Designed to run continuously, repeating a set cycle of make-break switching operations as long as the motor is energized. This unit may be applied to operations requiring only a single time cycle. The unit's timing motor drives the cam to actuate a single snap-action switch in a definite make-break sequence at predetermined speeds. Switch cams adjustable from minimum notch of 7° to a maximum notch of 169° (±3°). Cam Shaft Speed for One Complete Revolution (360°): RG21-093: 1 minute; RG21-096: 15 minutes; RG21-098: 60 minutes. 120V, 60 Hz. U.L. recognized and CSA listed.

Stock No.	Mfr's Type	NAED No.	EACH			
			1-4	5-9	10-24	25-Up
800-0190	RG21-093	01640	18.95	18.05	17.15	16.05
800-0194	RG21-096	01670	18.95	18.05	17.15	16.05
800-0198	RG21-098	01690	18.95	18.05	17.15	16.05

SERIES RE62, MULTIPLE SWITCH SWITCH STACKS WITH 2, 4 and 6 SWITCHES



Designed to run continuously, repeating set cycles of multiple switching operations as long as the motor is energized. Two, four or six switches may be actuated during the total operating cycle by a unit equipped with a corresponding number of cams. Motor friction permits manual rotation of camshaft to desired setting. Friction loaded with cams are individually adjustable from a minimum notch of 7° to a maximum notch of 169° (±3°). Inter-cam relationships are adjustable for any combinations of timed sequences. One switch stack and one driver motor, see right, will make a complete unit. U.L. recognized and CSA listed.

Stock No.	Mfr's Type	NAED No.	No. of Switches	EACH			
				1-4	5-9	10-24	25-Up
800-0180	RE62-091	01585	2	17.80	16.80	15.95	14.95
800-0184	RE64-093	01595	4	28.25	26.95	25.60	23.95
800-0188	RE66-095	01605	6	41.85	39.90	37.90	35.45

DRIVE MOTORS FOR SERIES RE62 SWITCH STACKS

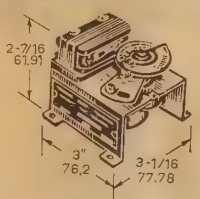
NEW!

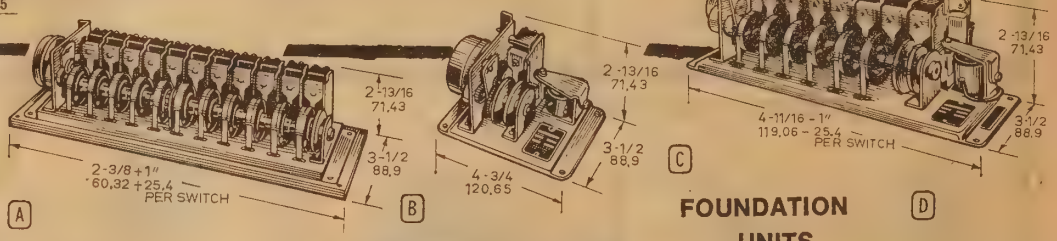


One drive motor and one switch stack, see left, will make a complete unit. Cam Shaft Speed for One Complete Revolution (360°): MP10-393: 1 minute; MP10-397: 30 minutes; MP10-398: 60 minutes. Actual Motor Speed: MP10-393: 2 rpm; MP10-397: 1/15 rpm; MP10-398: 1/30 rpm. 120V, 60 Hz.

Stock No.	Mfr's Type	NAED No.	EACH			
			1-4	5-9	10-24	25-Up
800-0160	MP10-393	01250	13.12	8.70	8.30	7.75
800-0164	MP10-397	01290	13.12	8.70	8.30	7.75
800-0168	MP10-398	01300	13.12	8.70	8.30	7.75

SERIES CM, MC, RA AND RC PROGRAMMING CAM TIMERS





HOW TO ORDER CAM TIMERS

Complete Cam Timer consists of foundation unit (Series CM, MC, RA or RC) and gear rack assembly. (Foundation unit includes motor.) To order:
1. Select foundation unit desired—Series CM, MC, RA or RC. 2. Refer to Gear Rack Time Chart below and select desired timing cycle. Numbers to the left of chosen time cycle are the gear rack assembly Type and Stock Numbers. Number above the chosen time cycle indicates the correct foundation unit suffix. 3. Refer to the charts at the right for complete foundation unit Type and Stock Number. When ordering be sure to specify both Allied Stock number and Manufacturer's Type number. **Two parts must be ordered for complete timer.**

EXAMPLE: To order an MC foundation unit with four switches and a 6m time cycle, order an MC-6-4 (Stock number 815-0230), and a D-18 gear rack assembly (Stock number 815-0131).
Additional gear rack assemblies may be ordered separately.

GEAR RACK TIME CHART

In chart below s = seconds, m = minutes, and h = hours.

Stock No.	Gear Rack Mfr's Type	EACH	Foundation Unit Mfr's Type/CM, MC, RA or RC-					
			—2	—4	—5	—6	—8	—10
815-0129	E-12	3.00	10s	40s	2m	3m20s	20m	2h
815-0130	E-14	3.00	11.67s	46.67s	2m20s	3m53s	23m20s	2h20m
815-0061	C-12	3.00	15s	60s	3m	5m	30m	3h
815-0131	D-18	3.00	18s	72s	3m36s	6m	36m	3h36m
815-0028	B-12	3.00	20s	80s	4m	6m40s	40m	4h
815-0132	C-18	3.00	22.5s	90s	4m30s	7m30s	45m	4h30m
815-0030	B-15	3.00	25s	100s	5m	8m20s	50m	5h
815-0010	A-12	3.00	30s	2m	6m	10m	60m	6h
815-0012	A-14	3.00	35s	140s	7m	11m40s	70m	7h
815-0133	D-36	3.00	36s	144s	7m12s	12m	72m	7h12m
815-0014	A-16	3.00	40s	160s	8m	13m20s	80m	8h
815-0134	A-18	3.00	45s	3m	9m	15m	90m	9h
815-0018	A-20	3.00	50s	200s	10m	16m40s	100m	10h
815-0135	B-32	3.00	53.33s	213.4s	10m40s	17m47s	106m40s	10h40m
815-0022	A-24	3.00	60s	4m	12m	20m	2h	12h
815-0136	A-28	3.00	70s	280s	14m	23m20s	2h20m	14h
815-0024	A-30	3.00	75s	5m	15m	25m	2h30m	15h
815-0026	A-36	3.00	90s	6m	18m	30m	3h	18h

GLOSSARY OF TIMER FUNCTIONS

Reset Timers have mechanism so timer returns to starting position automatically after measuring a set time which can be delay or interval function. **Delay** refers to a situation requiring specific time delay before a load circuit is energized. **Interval** is where load is to be turned on and kept on for a specific interval, then turned off automatically. **Repeat Cycle Timers** have cams to turn snap-action switches on or off according to pre-set time intervals, in a definite sequence.

FOUNDATION UNITS

A SERIES CM RECYCLING SINGLE SWITCH UNITS

Repeats a continuous, adjustable On/Off electrical cycle. Unit consists of heavy-duty synchronous motor, adjustable cam, SPDT snap-action switch, assembled on base mount chassis. Cam is coupled to motor by a gear and rack assembly (ordered separately). Adjustable cam allows the On/Off cycle to be set anywhere within 2% to 98% of the total time cycle. Contacts rated 10 amps at 115 VAC or 220 VAC, 60 Hz. U.L./CSA approved. Shpg. wt: 1½ lbs.

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
815-0085	CM-2	23.50	21.62	20.21	18.80
815-0086	CM-4	23.50	21.62	20.21	18.80
815-0087	CM-5	23.50	21.62	20.21	18.80
815-0088	CM-6	23.50	21.62	20.21	18.80
815-0090	CM-8	23.50	21.62	20.21	18.80
815-0092	CM-10	23.50	21.62	20.21	18.80

B SERIES MC RECYCLING MULTI-SWITCH UNITS

Identical in operation to CM timer above, but controls two, four or six circuits. Cams are mounted on single drive shaft, coupled to motor by gear and rack assembly (order separately). Cams adjustable in any combination of timed sequences. Shpg. wt: 1½ lbs.

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
TWO-SWITCH UNITS					
815-0201	MC-2-2	38.00	34.96	32.68	30.40
815-0219	MC-5-2	38.00	34.96	32.68	30.40
815-0236	MC-8-2	38.00	34.96	32.68	30.40
FOUR-SWITCH UNITS					
815-0203	MC-2-4	57.00	52.44	49.02	45.60
815-0221	MC-5-4	57.00	52.44	49.02	45.60
815-0230	MC-6-4	57.00	52.44	49.02	45.60
815-0246	MC-10-4	57.00	52.44	49.02	45.60
SIX-SWITCH UNITS					
815-0205	MC-2-6	73.50	67.62	63.21	58.80
815-0240	MC-8-6	73.50	67.62	63.21	58.80
815-0248	MC-10-6	73.50	67.62	63.21	58.80

C SERIES RA SINGLE CYCLE SINGLE SWITCH UNITS

Unit provides single timed electrical cycle upon momentary actuation from a remote position. At actuation the relay mechanically disengages a lever from the cam notch, simultaneously starting the motor. At end of revolution pawl guides the lever into notch, stopping motor after completing one revolution. SPDT snap-action switch. Contacts rated 10 amps at 115 VAC, 60 Hz. U.L./CSA approved. Shpg. wt: 1½ lbs.

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
815-0180	RA-2	33.00	30.36	28.38	26.40
815-0182	RA-5	33.00	30.36	28.38	26.40

D SERIES RC SINGLE CYCLE MULTI-SWITCH UNITS

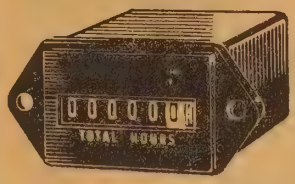
Identical to type RA timer, but operates either four or six circuits. Provides single timed electrical cycle upon momentary actuation from a remote position. Cams individually adjustable. Combines advantages of MC Series with homing control of RA series. Shpg. wt: 1½ lbs.

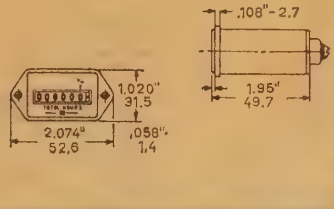
Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
FOUR-SWITCH UNITS					
815-0349	RC-2-4	73.00	67.16	62.78	58.40
815-0358	RC-4-4	73.00	67.16	62.78	58.40
SIX-SWITCH UNITS					
815-0360	RC-4-6	91.50	84.18	78.69	73.20

See Page 2 for the Allied Electronics Facility Nearest You

Timers

ALLIED TYPE 1000 ELAPSED TIME METER



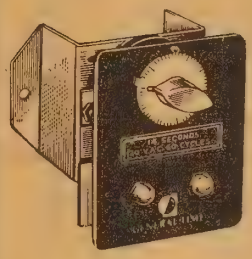


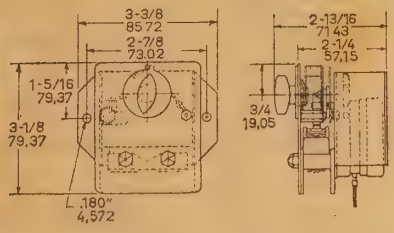
This alternating current elapsed time meter is for recording operating time for leasing, maintenance, testing and warranty programs. Motor and frame are integrated into one sub-structure. Small in size yet rugged and durable for long life. Features polycarbonate, shock resistant, tamper proof case. Records up to 99,999.9 hours—automatic recycle at zero. White numerals indicate hours, black numerals indicate 10ths of hours. Motor is single phase, synchronous and permanently lubricated. Screw type termination and ±1% accuracy. Voltage: 120 VAC (Range: ±10%). Frequency: 60 hertz. Power rating: 3 watts. Temp.: −65°F to +154°F. Specially designed for use on computers, business machines, control panels, lighting systems, generators, compressors, pumps and more. Wt. 3 oz.

611-1005. 1-9 ..... Each 14.40
10-24 ... Ea. 12.77 25-49 ... Ea. 12.02 50-Up ... 11.43

SERIES DA11 20-AMP TIME DELAY TIMERS

NEW!

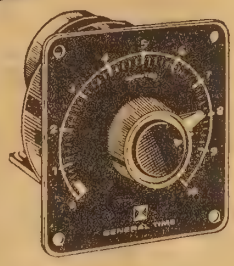


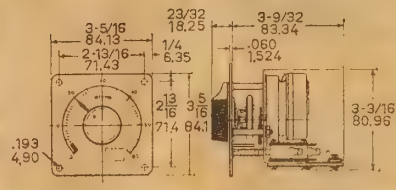


For use where delay, interval or repeat cycle time functions are required for adjustable time periods. SPDT 20-amp switch, 125 or 250VAC resistive. Internal clutch engages and disengages when motor is energized and de-energized. Series DA1103 has knob adjustment. Series DA2100 has locknut adjustment. Unit is rear mounted. External wiring is connected directly to motor leads and switch terminals. Repeat accuracy is ±¾% of total time range. Size: 3⅜x2$^{13}/_{16}$x3⅛". U.L. recognized. Shpg. wt. 1½ lbs.

Stock No.	Mfr's Type	Time Range	EACH			
			1-9	10-24	25-49	50-Up
800-0050	DA11(2)031	0-14 sec.	28.97	22.30	20.85	19.70
800-0052	DA11(2)032	0-57 sec.	28.97	22.30	20.85	19.70
800-0054	DA11(2)033	0-4.5 min.	28.97	22.30	20.85	19.70
800-0056	DA11(2)034	0-9.5 min.	28.97	22.30	20.85	19.70
800-0068	DA21004	0-9.5 min.	28.97	22.30	20.85	19.70

SERIES DP11 RESET TIMERS

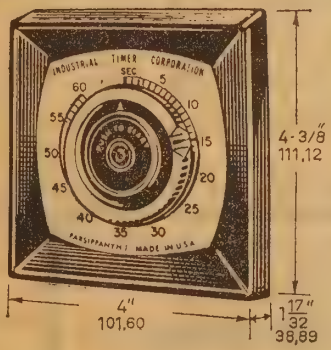




Delay, interval or repeat cycle panel mounting timer, with a single pointer knob for time adjustment and with elapsed time readout in center of knob. Resets to start position when power is removed. Repeat accuracy is ±1% of total time range. Repeat cycle requires two timers. U.L. recognized and CSA listed. Shpg. wt. 1 lb.

Stock No.	Mfr's Type	Time Range	EACH			
			1-9	10-24	25-49	50-Up
800-0080	DP11-001	0-15 sec.	30.25	27.40	25.65	24.21
800-0082	DP11-002	0-60 sec.	30.25	27.40	25.65	24.21
800-0084	DP11-003	0-5 min.	30.25	27.40	25.65	24.21

TYPE MPB INTERVAL TIMERS

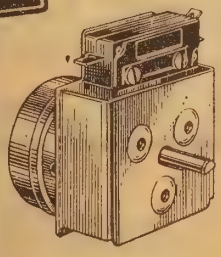


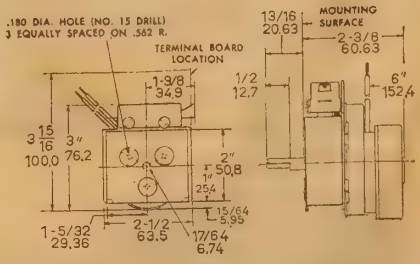
Depressing pushbutton in center of selector ring engages synchronous motor and closes SPDT snap action isolated load switch. At end of cycle, timer automatically resets to zero and opens load switch. Contacts rated 15 amps non-inductive at 115 volts, 60 Hz AC. Double load operation possible. Specify timing range desired. Shpg. wt. 3 lbs.

Stock No.	Mfr's Type	Time Setting		EACH		
		Max.	Min.	1-9	10-24	25-Up
815-0329	MPB60S	60 sec.	1 sec.	19.50	17.94	16.77
815-0322	MPB5M	5 min.	5 sec.	24.00	22.08	20.64
815-0324	MPB15M	15 min.	15 sec.	24.00	22.08	20.64
815-0328	MPB60M	60 min.	60 sec.	24.00	22.08	20.64
815-0320	MPB3H	3 hrs.	3 min.	24.00	22.08	20.64

SERIES AB HANDSET INTERVAL TIMERS

NEW!





Rotation energizes the load and the timing motor, which are de-energized when the motor drives timer to zero. Setting can be changed during cycle without damage. For appliances, amusement devices, vending machines, medical equipment, battery chargers, etc. Mount behind panel. Has 3 mtg. holes. Setting shaft ¼" dia. flatted to .156 for ½". Flat is located 180° from "0" time. U.L. recognized and CSA listed. Wt. 1 lb.

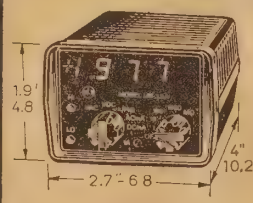
Stock No.	Mfr's Type	Time Range	EACH			
			1-9	10-24	25-49	50-Up
800-0010	AB51-003	0-15 min.	11.75	10.65	9.95	8.85
800-0012	AB51-004	0-30 min.	11.75	10.65	9.95	8.85
800-0014	AB51-005	0-60 min.	11.75	10.65	9.95	8.85
800-0016	AB51-007	0-6 hrs.	11.75	10.65	9.95	8.85
800-0018	AB51-008	0-8 hrs.	11.75	10.65	9.95	8.85

Digital Test Instruments

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LM SERIES DIGITAL MULTIMETERS



Choose from three models: the LM-3A with three digits, the LM-3.5A with three and one-half digits, or LM-4A with four digits. Automatic polarity, decimal and overload indication. No zero adjustments and no full scale ohms to adjust. Measures DC and AC volts, ohms and current. Large LED display for easy reading from up to 8′ away. Uses 3 "AA" Nicad batteries; 115V charger unit, test leads and tilt stand all included. Specifications at right. 1.9 x 2.7 x 4″. Wt. 9.2 oz.

667R1000. LM-3A. 1-4...Each 128.50 5-Up...Each 115.65
667-1100. LM-3.5A. 1-4...Each 150.50 5-Up...Each 141.25
667-1200. LM-4A. 1-4...Each 230.50 5-Up...Each 220.10

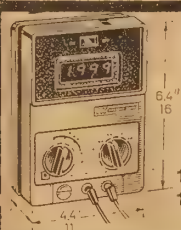
Model RMS-350 3½-Digit Multimeter. True RMS measurement with LCD display. Measures DC volts and mA, ohms, and true RMS AC volts and current. No zero adjustment or full scale ohms adjust. Automatic polarity, decimal and overload indication. Input voltage protection in all ranges. Three "AA" alkaline batteries provide up to 15 hours of operation (not incl.). Specifications same as LM-3.5A. Size: 1.9 x 2.7 x 4.0″. Wt. 9.2 oz.
667-1400. 1-4.....Each 192.50 5-Up.....Each 173.25

Model LM-350 3½-Digit Multimeter. Identical to LM series meters above, but with LCD display for excellent readability in direct sunlight; easy reading without interpolation. Automatic polarity, decimal and overload indication. No zero adjustment; no full scale ohms adjust. Uses "AA" batteries (not incl.); rechargeable Nicad batteries and charger available. Specifications same as LM-3.5A in table at right. Size: 1.9 x 2.7 x 4.0″. Wt. 9.2 oz.
667-1500. 1-4.....Each 128.50 5-Up.....Each 115.65

SPECIFICATIONS

MODE	RANGE	ACCURACY LM-3A	ACCURACY LM-3.5A◊	RESOLUTION LM-3A/LM-3.5A	ACCURACY LM-4A	RESOLUTION LM-4A
VOLTS DC 1000 VDC or peak AC maximum any range.	1	±1% Reading†	±0.5% Reading†	1 mV	±0.03% Reading†	100 µV
	10			10 mV		1 mV
	100			100 mV		10 mV
	1000			1 V		100 mV
VOLTS AC 1000 VDC or peak AC maximum any range.	1	±1% Reading† 50-400 Hz	±0.7% Reading† 50-400 Hz	1 mV	±0.2% Reading‡ 50-400 Hz	100 µV
	10			10mV		1 mV
	100			100 mV		10 mV
	1000			1 V		100 mV
KILOHMS**	1	±1% Reading†	±0.5% Reading†	1 Ω	±0.1% Reading†	100 mΩ
	10			10 Ω		1 Ω
	100			100 Ω		10 Ω
	1000			1 kΩ		100 Ω
	10000			10 kΩ		1 kΩ
CURRENT	1 mA	±2% Reading†	±2% Reading†	1 µA	±2% Reading†	100 µA
	10 mA			10 µA		1 µA
	100 mA			100 µA		10 µA
	1 A			1 mA		100 µA

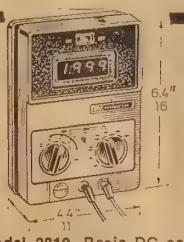
†±2 digits. ‡±10 digits. **Test Voltage (ohms): 1V DC full scale for LM-3A, LM-4A; 2V DC for LM-3.5A, RMS 350, LM-350. ◊LM-3.5A, RMS-350 and LM-350 have 100% over range; readings of 1.999, 19.99, etc.



3½ DIGIT PORTABLE DIGITAL MULTIMETER

1% Typical DC Accuracy
100% Overrange

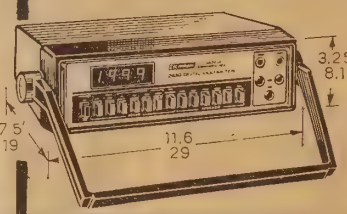
Model 2800. Easy-to-read 3½-digit LED display. Auto-zero circuit functions on all ranges. 22 scales read as high as 1000 volts AC or DC; resolution of 1 mV, 1 µA or 0.1 ohm. Fully overload protected. Input impedance is 10 megohms. 100% overrange capability allows reading to 1999 on a scale normally limited to maximum of 1000. Automatic decimal point, polarity and out-of-range indications. High/Low power ohms for in-circuit accuracy. In low-power ohms range, 0.2V is developed across measured resistance; in high-power, 2V. Powered by "C" cells, optional rechargeable batteries, or optional AC adapter. Ranges: 1, 10, 100, 1000V DC/AC; 1, 10, 100, 1000 mA; 100, 1k, 10k, 100k, 10 megohms. Size: 6.4 x 4.4 x 2″ (16 x 11 x 5 cm). Wt. 2 lbs. (907 gm).
731-0280 .....Each 99.95
731-0021. LC-28 Carrying Case.....Each 7.50
731-0020. BC-28 AC Adapter/Charger.....Each 9.00



3½ DIGIT DIGITAL MULTIMETER

- **0.5% DC Accuracy**
- **Overload Protected On All 29 Ranges**

Model 2810. Basic DC accuracy is 0.5% typical with a 3½-digit 0.3″ LED display. Auto-zeroing on all but the 10-ohm range, which has a control to zero-out test lead resistance. 100% overrange to 1999 counts full scale. Resolution of 100 µV and .01 ohm. High/Low power ohms switch (on 4 ranges) is independent from range switch; permits resistance measurements in solid-state circuitry without biasing semiconductor junctions. Protected against RF interference. Ranges: DC and AC Volts: 100.0 mV, 1V, 10V, 100V, 1000V. DC and AC Current: 1 mA, 10 mA, 100 mA, 1000 mA. Resistance: 10, 100, 1k, 10k, 100k, 10 megohms. Power: 4 "C" batteries (not included); has provision for AC adapter/charger. Size: (HWD) 6.4x4.4x2″ (16x11x5 cm). Wt. 2 lbs. (907 gm).
731-2810 .....Each 119.95
731-0021. LC-28 Carryin Case.....Each 7.50
731-0020. BC-28 AC Adapter/Charger.....Each 9.00



3½ DIGIT LAB DIGITAL MULTIMETER

Model 2830. Bright 0.43″ LED display is visible under virtually all lighting conditions. Basic DC accuracy of 0.5%. Auto-zeroing on all ranges. 100% overranging. Built-in 10-amp current shunt for measurement of current up to 20 amps (with overrange). All ranges and functions are pushbutton selectable. Fully overload protected. Selectable high/low power ohms on 4 ranges. Protected against RFI. Tilt stand/handle. Ranges: DC/AC Volts: 100.0 mV, 1V, 10V, 100V, 1000V. DC/AC Current: 100 µA, 1 mA, 10 mA, 100 mA, 1000 mA, 10A. Resistance: 10, 100, 10k, 100k, 1000k, 10 megohms. Resolution: 100 µV, 100 nA, .01 ohm. Power: 105-130 or 230 VAC; rechargeable battery pack available. Size: (HWD) 3.25 x 11.6 x 7.5″ (8.1 x 29 x 19 cm). Wt. 3 lbs. (1.5 kg).
731-2830. 1-3.....Each 235.00 4-Up.....Each 219.95



4¾ DIGIT MULTIMETER

- **Overload Protected**
- **High-Level Analog Output**
- **Guarded Input**
- **Front Panel Zero Control**

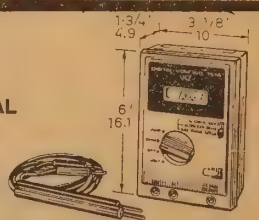
Model 3410. Measures DC voltage to 1 microvolt resolution, and low resistance to 1 milliohm resolution. Front panel zero control corrects external thermal offsets and lead resistance in ohm measurements. High-level analog output provides 2.5 volts DC equal to input signal on voltage and current ranges; useful for strip-chart recorders, oscillographs and hi-low alarms. Guarded construction eliminates errors due to ground loops and power line hum, permits use in intense RFI environments. Overload protection. Measurement Ranges and Capabilities: DC Volts: six ranges from 1 µV to 1200V; resolution of 10 µV; accuracy of ±0.01% (±1 digit). AC Volts: five ranges from 10 µV to 1000V rms; resolution of 10 µV; accuracy of ±0.2% (±1% full scale). Resistance: seven ranges from 1 milliohm to 2 megohms; resolution of 10 milliohms; accuracy of ±0.5% (±2 digits). DC Current: five ranges from 10 nA to 2 amps; resolution of 10 nA; accuracy of ±0.1% (±1 digit) DC, ±0.3% (±0.1% full scale) AC. Power Requirement: 115-230 VAC (−10%/+20%), switch selectable, 50 Hz to 400 Hz. Size: 3½ x 8⅜ x 13″ (8.9 x 21.2 x 33 cm). Wt. 10 lbs.
69903410 .....Each 790.00

DIGITAL VOLTOHMYST



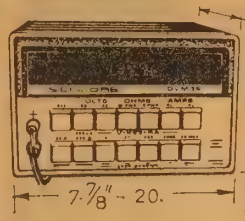
Model WD-750A. This 3½ digit multimeter features auto-zeroing, autopolarity readout and over-range indication. It measures AC and DC volts, current and resistance. Built-in analog panel meter for peaking and nulling. Hi/Lo ohms selector. AC/DC volts (Accuracy AC, .75%; DC, .1%): 0-200mV, 0-2-20-200-1200V. AC/DC (Accuracy AC, 1%; DC, .3%) current: 0-200µA, 0-2-20-200-2000mA. Ohms (Accuracy .3%): 0-200-2k-20k-200k-2000k-20meg. Range: 30Hz to 20kHz, 2% accuracy. Power: 115/230VAC or rechargeable batteries. 3⅛x10⅜x11″ (7.9x 26.4x27.9cm). Wt. 5.13 lbs. (2.62kg).
901-1750 .....Each 267.00
4-Up .....Each 240.30

DIGITAL VOM



Model WD-751A. Features 3½ digit Field Effect Liquid Crystal readout. Semi-auto-ranging for fast, easy operation. Accuracy: VDC—Low setting ±0.3% ±0.1% F.S., High setting ±0.5% ±0.1% F.S. Automatic over-range indication; polarity indication; battery check. Maximum display: 1999 (except 1000V AC/DC). Response time: DC, approx. 0.5 sec. Power consumption: 0.3 watts. Uses four "AA" batteries, not included. Comes with 1 set test leads and instructions. Size: 6x3⅛x1¾″ (16.1x 10x4.9cm). Wt. 3 lbs., (1.36kg).
901-1760 .....Each 150.00
4-Up .....Each 135.00

Digital Test Equipment

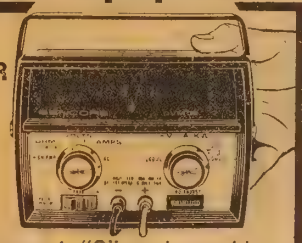


3½ DIGIT AUTO-RANGING DIGITAL MULTIMETER

Model DVM38 features .1% DCV accuracy for 3½ digit tests. Measures circuits with 15 megohms input impedance, interference free in RF or magnetic fields, with sensitive 100 micro/Volt resolution. Overload protected to 2000 Volts DC and 1000 Volts all other functions. Lo-power ohms test to .01 in solid state circuits. Single-step auto-ranging automatically changes voltage range sensitivity. 5½x7⅞x9″ (13.7x20x22.5 cm).

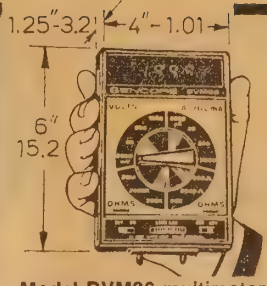
941-0038. Model DVM38. 1-3 . . . . **Ea. 395.00**
4-Up . . . . . **Ea. 355.50**

DIGITAL MULTIMETER



Model DVM32 uses 4 "C" rechargeable NiCad cells or optional line cord adaptor. 2000V DC protection, 1000V protection on all other functions and ranges, including Ω. DC ranges: 0-±1.999, ±19.99, ±199.9, ±1999 V. Acc.: 0.5%. AC rejection: 40db at 50-60Hz. Input impedance: 15 megohms. AC ranges: 0-1.999, 19.99, 199.9, 1000 V RMS. Acc.: 1.5% at 60Hz, ¼-full scale. Input scale. Input Impedance: 1.8 megohms shunted by 18 pf.

941-0032. Model DVM32. 1-3 . . . . **Ea. 225.00**
4-Up . . . . . **Ea. 202.50**
941-2500. PA208. 115/230VAC power adaptor/recharger. **1-3** . . . . . **Ea. 9.95**
4-Up . . . . . **Ea. 8.95**



3½ DIGIT POCKET PORTABLE DIGITAL MULTIMETER

Model DVM36 multimeter has the same features as the DVM35, below left, plus twice the accuracy (.5%) and range (20 megohm) for solid state measurements. Completely portable in a compact, drop-proof case. Includes "big meter" features such as Hi-Lo power Ohms, AC/DC current ranges and 2000VDC range and circuit isolation. Suitable for field applications and production testing. 6x4x1¼″ (15.24x10.16x2.79 cm). Uses PA208 power adaptor/charger, see left.

941-0036. Model DVM36. 1-3 . . . . **Ea. 158.00**
4-Up . . . . . **Ea. 142.20**

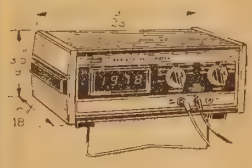
POCKET PORTABLE DIGITAL METER



Model DVM35 has 3 digit LED readout. Uses 6AA alkaline batteries rechargeable with AC adaptor. DC V ranges: 0-±1000mV, 10V, 100V, 1000V. Acc.: ±1.0% of reading ±1 digit. AC V range: 0-1000mV, 10V, 100V, 1000V. Acc.: ±1% of reading ±1 digit at 50-60Hz, ±5% of reading ±1 digit at 4-100Hz. Input impedance: 15 mΩ shunted by less than 60 pf. Protection: 1000V (DC + peak) any range. Ground lead and test probe attached. Size: 4x6x1¼″.

941-0035. Model DVM35. 1-3 . . . . **Ea. 134.00**
4-Up . . . . . **Ea. 120.00**
941-2500. Model PA208. AC line cord battery charger. **1-3** . . . . . **Ea. 9.95**
4-Up . . . . . **Ea. 8.95**

3½ DIGIT MULTIMETER



Model 283. Solid-state circuitry and 100% overange capability. High-intensity displays. Automatic polarity and decimal point positioning, analog-to-digital converter. 10 megohm input on AC/DC ranges. DC voltage ranges: ±1.000, 10.00, 100.0, 1000V. Accuracy: ±.5% of reading, ±1 digit, 1, 10, 100V range. AC voltage ranges: 0-1.000, 10.00, 100.0, 1000 RMS. Accuracy and response: 1V, 10V, 100V range, ±1% of reading, ±1 L.S.D., 40-400Hz. DC current ranges: ±0-1.000, 10.00, 100.0, 1000mA. AC current ranges: 0-1.000, 10.00, 100.0, 1000mA. For 105-125 VAC, 50/60 Hz. Wt. 3 lbs. (1.35 kg).

731-0282. 1-3 . . . . . **Each 185.00**
4-Up . . . . . **Each 175.75**

PORTABLE 3½ DIGIT VOM

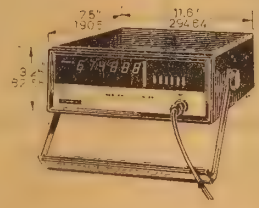
- **29 Ranges**
- **2 "Low-Power" Ohms Ranges**



Model 360. Non-blinking 0.43″ LED display with auto-polarity. Calibrated zero-center analog display for nulling, peaking, scanning trends. Overrange indication automatic beyond 1999. DC Volts: ±(0.25% +1 digit). AC Volts: ±(0.5% +1 digit), except 200V range ±(5% +2 digits). DC Current: ±(0.5% +1 digit) except 2A and 10A ranges ±(1.0% +1 dgiit), AC Current: ±(1.0% +1 digit), 40 Hz to 10 KHz, except 2A and 10A ±(2% +2 digits). Resistance: ±(0.5% +1 digit) except 2 meg and 20 meg ±(1% +2 digits). 120/240 VAC or Ni-Cad "C" cells. 4 lbs.

919-0360. 1-3 . . . . . **Each 320.83**
4-Up . . . . . **Each 275.00**

520 MHz FREQUENCY COUNTER



Model 1850. Digital readout of frequencies from 5 Hz to 520 MHz. TCXO time base (±1 PPM max.); leading zero suppression; bright .43″ LED readout; selectable kHz or Auto display. Period measurement for every low freq.: 5 Hz to 1 MHz with 100 period average or Auto Display. Freq. Range: normal, 5 Hz to 60 MHz; prescaled, 10-520 MHz. Gate Times: auto, 10 ms to 10 sec prescale, 10 ms to 1 sec normal prescale. Power Required: 105-130/212-258 VAC or 11-16 VDC. Size: 3.25x11.6x7.5″ (1.2x4.5x2.9 cm). 5 lbs. (2.2 kg).

731-1850. 1-3 . . . . . **Each 450.00**
4-Up . . . . . **Each 427.50**

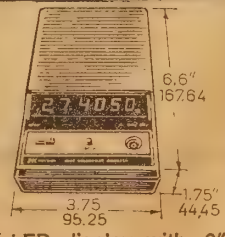
40 MHz AUTORANGING FREQUENCY COUNTER



Model 1801. Fast transmitter adjustment, monitoring, etc. Auto-function fills all display positions, indicates range in kHz or MHz. Accepts wide input levels, normally with no adjustments. Suppresses leading digit for extra resolution above 1 MHz on 1-sec gate time. 10 MHz crystal-controlled time base oscillator; convertible to external time base. Auto Gate Time: 1 or 100 msec. Manual Gate Time: 1 sec. Resolution: 1 Hz. Input: 1 meg/25 pF. Max. Peak AC+DC Input: 200V, up to 500 Hz. Wt. 6 lbs.

731-1801. 1-3 . . . . . **Each 200.00**
4-Up . . . . . **Each 190.00**
731-0025. PR25 Probe . . . . . **Each 15.00**

PORTABLE FREQUENCY COUNTER

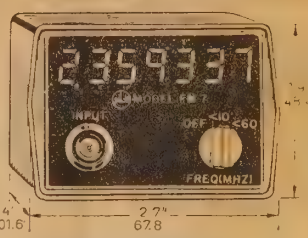


Model 1827. 6-digit LED display with .3″ digits, covers all 40 CB channels. Function switch selects AUTO or 1 SEC position for up to 1 Hz resol. (8-digit accuracy by dropping first two digits). Acc.: ±1 PPM. Battery-saver has auto-shutoff of display. Operates on "AA" batteries. Input protected against overload to 200V peak AC+DC. Range: 100Hz to 30MHz; 50 MHz typical. Gate time: Auto, 10 ms or 100 ms (MHz) or 1 sec (kHz). Manual, 1 sec (kHz reading, 1 Hz resol.). CC-51 clip-lead input cable and instruction manual included. 1.75x3.75x6.6″ (4x9.5x17cm). Wt. 1 lb. (0.45 kg).

731-1827. 1-3 . . . . . **Each 120.00**
4-Up . . . . . **Each 114.00**

Frequency Counters and CB Test Equipment

MODEL FM-7 60MHz FREQUENCY COUNTER



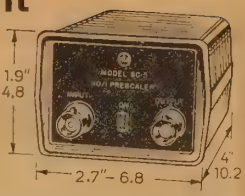
Portable frequency monitor for audio, broadcast, amateur, CB and industrial frequencies. 10Hz to 60MHz frequency range. Sensitivity: 30mV (RMS Sinewave)—50Hz to 30MHz, 10Hz to 50Hz. 100mV (RMS Sinewave) 30MHz to 60MHz. Impedance: 1MΩ, <50pF up to 0.5 V rms input. Max. input: ±100VDC. .250V rms —10Hz to 500KHz. Uses four AA Nicad batteries with charger unit, all included. 1.9x2.7x4″. Wt. 9 oz.

667-6000 1-4 Each 198.00 5-Up Each 188.35

ACCESSORIES FOR LM AND FM SERIES MULTIMETERS

667-1010. Type 39-439. Leather Case and Strap.....**Each 16.00**

MODEL SC-5 512 MHz PRESCALER

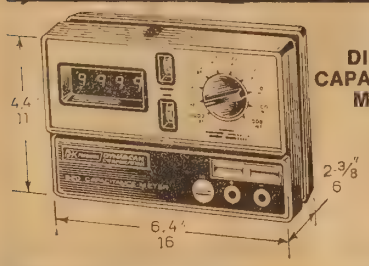


- **Extends Range of FM-7 Frequency Counter**
- **Overcharge Protected**

Portable prescaler may be used to measure 6 and 2 meter amateur bands, UHF TV channels, marine and aircraft communication and navigation frequencies, FM and Citizen bands, non-military telemetry. Accurate to one part per million; 20MHz to 512MHz. Can be interfaced with any 50MHz frequency meter with 50 ohm input impedance match. Maximum input voltage: 4Vrms. Output: 20MHz to 51.2MHz. 100V rms. Sensitivity: 30V rms. Input impedance: 50Ω. Powered by four AA NiCad batteries with charger unit, interface and input cable (all included). Size: 1.9x2.7x4″.

667-6010. 1-4.....**Each 89.00 5-Up**.....**Each 80.10**

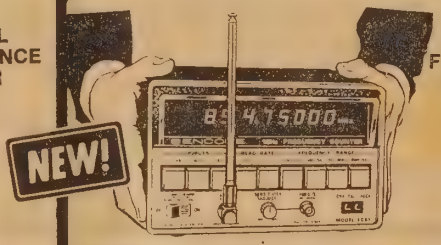
DIGITAL CAPACITANCE METER



Model 820. Measures capacitance from 0.1 pF to 1 Farad in 10 ranges; resolution to 0.1 pF. Easy-to-read 4-digit LED display with overrange indication; 0.5% accuracy. Checks all capacitors, from miniature discs to pole-mounted power types. Can be used to verify tolerance, measure cable capacitance, select and match capacitors for critical circuit applications, measure complex networks. Has special front-panel lead-insertion jacks for fast in-out testing; or banana jacks can be used. Powered by rechargeable or disposable batteries. Tilt stand. Ranges: 10 selectable ranges with full scale value from 999.9 pF to 999,900 μF. Accuracy: 0.5% of full scale ±1 digit to 100 μF; 1% ± digit from 100 mF to 1 F. Reading Time: 0.3 second to 1000 μF, increasing to 35 sec max. at 1 F. Power Source: 4 "C" cells; provision for charger. Size: 6.4 x 4.4 x 2.375″ (16 x 11 x 6 cm). Weight: 1.51 lbs. (675 gm) with batteries (not incl.).

731-0820. 1-3.....**Each 120.00 4-Up**.....**Each 114.00**

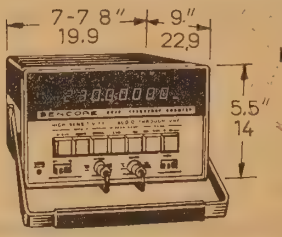
1 GHz FREQUENCY COUNTER



Model FC51. Measures any frequency from audio to 1 GHz to FCC specs, with 0.5 ppm oven-controlled accuracy (guaranteed to stay within 2 ppm per year). Gives direct readings in fractions of a Hertz; no calculations needed. 50-ohm or 1-megohm input. Read Rate of 0.1 or 1 second update. Sensitivity adjustment stabilizes complex waveforms. Built-in crystal checker reads fundamental frequency to 20 MHz. Has 0.5″ LED readout with Hz/MHz light. Includes shielded and matched 50-ohm input cable, plus a 50-ohm adjustable pick-up antenna and untuned RF pick-up loop. Ranges: 4 pushbuttons for continuous measurement from 10 Hz to 1000 MHz. Resolution: .01 Hz on lowest range, 0.1 Hz from 500 Hz-20 kHz. Sensitivity: 50-ohm input (10 MHz-1 GHz), 100 mV average, 5V max.; 1-megohm (10 Hz-100MHz), 25 mV average, 3V max. Power Req'd: 105-130 VAC or 12 VDC (cigar lighter adapter incl.). Size: 5½ x 7⅞ x 9″ (14 x 19.9 x 22.9 cm). Wt. 7 lbs.

941-0051. 1-3.....**Each 975.00 4-Up**.....**Each 926.25**

230 MHz FREQUENCY COUNTER



Model FC45. Easy-to-use instrument covers the audio through VHF frequency range — 30 Hz to 230 MHz — with better than FCC accuracy (.0001%). Offers high sensitivity (25 mV) for circuit testing. Simple push-button operation with direct-reading digital frequency meter. Choice of inputs: 50 ohm impedance, 12 watt load: 1 megohm impedance: plus an exclusive Crystal Check that gives readings of fundamental frequency from 1 to 20 MHz. Frequency Range: 30 Hz to 230 MHz. Accuracy: .0001% (1 ppm). Display: 8-digit, 7-segment red 0.5″ LED with automatic readout. Cabinet: Portable vinyl-covered steel case with aluminum front panel and trim; convenient adjustable tilt stand/carrying handle. Power Required: 105-135 VAC, 50/60 Hz, 30 watts; or 12 VDC power source for mobile/portable testing. Size: 5½ x 7⅞ x 9″. (14 x 19.9 x 22.9 cm). Wt. 6½ lbs. (3 kg).

941-0045. 1-3.....**Each 448.00**
4-Up.....**Each 403.20**

AUTOMATIC CB ANALYZER

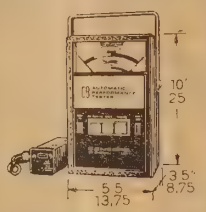


- **Better Than FCC Specifications**
- **Digital Frequency Display**
- **Battery or AC Powered**

Model CB42. Total CB service in one easy-to-use instrument. Automatically tests at digital speed and accuracy, and better than FCC specs. Provides all the RF, IF, audio and alignment signals needed to troubleshoot every receiver stage. Crystal-controlled 40-channel PLL RF tuner and full-range IF generator checks both SSB and AM units. Built-in 50 MHz Frequency Counter, Crystal Check, 12-watt Dummy Load, and Speaker Substitute. Digital display of transmitter frequency, power, modulation and distortion. Percent Off-Channel Test checks all 40 channels for FCC .005% frequency limits. Uses only three connecting cables. Has scope adapter for any 1 MHz scope. Includes Dynamic Mike Tester. Frequency Accuracy: .0001%, 50 Hz to 50 MHz. Power Required: 120 VAC or 12 VDC. Size: 11 x 14 x 11″ (28 x 35.5 x 28 cm). 24 lbs.

941-0042. 1-3.....**Each 1095.00 4-Up**.....**Each 985.50**

AUTOMATIC CB PERFORMANCE TESTER

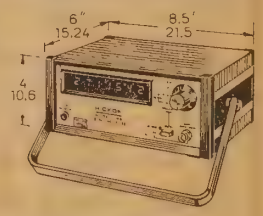


- **RF Power/SWR/ Modulation**

Model CB41. Automatically checks RF power, SWR and percent modulation with three simple pushbuttons. Self-calibrating automatic circuits. With optional extension cable, you can make antenna adjustments with the meter right at the antenna. Power Required: two 9V batteries (AC adapter available). Size: 10 x 5½ x 3½″ (25 x 13.75 x 8.75 cm). Wt. 4½ lbs.

941-0041. 1-3.....**Each 148.00**
4-Up.....**Each 133.20**

CB IN-LINE TESTER

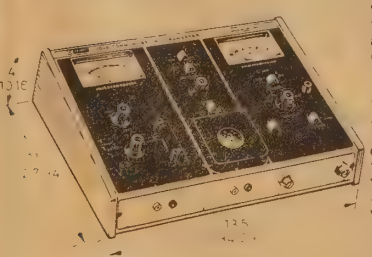


- **Easy-to-See Digital Display**

Model 388. Digital readout of frequency, power output, SWR and percent modulation with one front-panel control. Connects between the CB transceiver and antenna or dummy load. Provides 7-digit frequency reading from 10 Hz to 55 MHz, accurate to 10 ppm. Size: 8½ x 6 x 4″ (21.5 x 15.24 x 10.6 cm)

699-0388. 1-3.....**Each 399.00**
4-Up.....**Each 359.10**

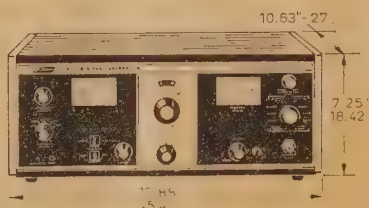
MODEL 1040 CB SERVICEMASTER



Check all operating characteristics of any CB transceiver, AM or sideband, in minutes with the 1040 Servicemaster. When used with a signal generator, frequency counter and oscilloscope, with a bandwidth as low as 2 MHz, you can measure transmitter RF power output, modulation, antenna SWR, receiver sensitivity, audio output and distortion, AGC, adjacent channel rejection and squelch. Eliminates the complicated reconnection and multiple test instruments once needed to perform a thorough service analysis on a CB transceiver. Special circuit prevents accidental damage to RF generator by keying the transmitter. With its built-in audio test tones, audio power/distortion/dB meter, SWR bridge, peak/averaging RF power wattmeter and ability to accept external antenna loads, the 1040 is the key to assembling a CB test bench. Power Requirement: 160 mA, 115 VAC or 400 mA, 13.8 VDC. Size: (HWD). 4x13½x11″ (10.16x 34.29x27.94 cm). Wt. 5 lbs., 10 oz. (2.55 kg).

731-1040. 1-3.....**Each 260.00**
4-Up.....**Each 237.50**

MODEL 2040 CB SIGNAL GENERATOR



This signal generator is specifically designed for AM and SSB Citizens Band service work. Covers all 40 CB channels. **Frequency Accuracy and Stability:** ±5 ppm, 0-50°C after 15-minute warm-up. **Output Level Metering:** Front panel meter provides μV and dB readings. **Output Connector:** UHF. **Modulation Calibration:** AM, 0-50% calibrated, to 80% uncalibrated. **Modulation Frequency:** 400, 1000, 2500 Hz. **Modulation Bandwidth:** 100 Hz to 10 kHz; accepts external modulation using a CB gain microphone. **Modulation Metering.** Front panel 0-50% modulation meter. **Impulse Noise Test Generator:** EIA Standard; 1 μsec pulse width, less than 10 nsec rise/fall time, 100 pulses per sec.; front panel on/off. **Output Protection:** Withstands 5W RF input at 27 MHz for 1 minute without damage. **Delta Freq. Adjustment:** Variation of 0-5 kHz from channel center freq. **Sizes:** 17.88x10.63x7.25″ (45.42x 27x18.42 cm). 17 lbs.

731-2040. 1-3.....**Each 475.00**
4-Up.....**Each 451.25**

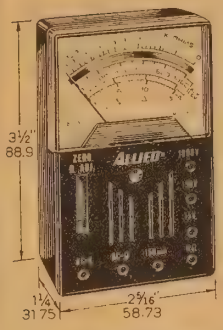
Allied Test Instruments

TEST EQUIPMENT

We carry a large selection of performance-proven Allied® Test Equipment that is top-rated for students working on shop projects, for hobbyists' experimentihg at their work benches or for engineers working in the field, plus many more applications. These top-quality multitesters have the features you want at low prices. See below for further information.

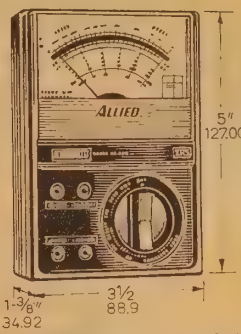
ALLIED TOP-RATED MULTITESTERS REALLY PERFORM!

NEW!



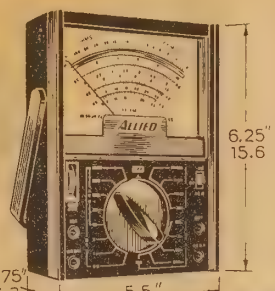
Handy Pocket Size

8.95

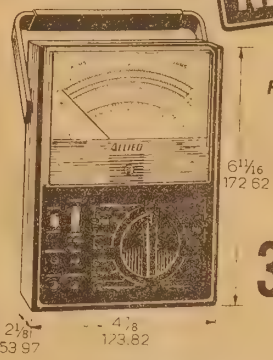


Superb Quality—Low, Low Price

16.95



29.95



Single Function Switch

34.95

1000 OHMS/VOLT POCKET 8-RANGE MULTITESTER

Model 4527. Fits right in your pocket — has easy-to-read two-color 2" meter, pin jacks for all ranges, 1% resistors for accuracy. Perfect for shop, home or on-the-go. Ranges: AC/DC Volts, 0-15-150-1000; DC Current, 0-150 mA; Resistance, Rx1000 (100,000 ohms full scale). Accuracy: ±3% DC, ±4% AC. Zero adjustment. Pin jacks for all ranges. Mirrored scale eliminates parallax. 3½×2⁵⁄₁₆×1¼" bakelite case. Comes with test leads, battery. Shpg. wt. 1 lb.

910-4527 ..... **Each 8.95**

20,000 OHMS/VOLT 18-RANGE MULTITESTER

Model 4546. Single-knob range selector with "off" position. 3" meter has color-coded scale. Has 4 pin jack connections including output jack, zero adjust. Ranges: DC Volts, 0-5-25-125-500-1000 at 20,000 ohms/volt; AC Volts, 0-10-50-250-1000 at 10,000 ohms/volt; DC Current, 0-50μA, 0-250 mA; Resistance, Rx1, Rx10, Rx1000 (24 center scale). Decibels, −20 to +62 in 4 ranges. Overload protection circuit. Output jack. Accuracy: ±3% DC, ±4% AC. With leads, battery. Overall size, 5⅛×3½×1⁷⁄₁₆". Wt. 1 lb.

910-4546 ..... **Each 16.95**

30,000 OHMS/VOLT 27-RANGE MULTITESTER

Model 4549. Features a 4" meter with color-coded mirrored scale. Has 4 banana jacks including output jack, polarity switch, thumbwheel zero adjust. Ranges: DC Volts: 0-0.3-1-3-10-30-100-300-1000 at 30,000 ohms/volt; AC Volts: 0-10-30-100-300-1000 at 10,000 ohms/volt; DC Current, 0-100 μA, 3-30-300 mA; Resistance, Rx1, Rx10, Rx1000, Rx10k (10 center scale). Decibels: −10 to +62 in 5 ranges. Accuracy: ±3% AC, ±4% DC. 6¼x4½x1¾". With leads, battery and instructions.

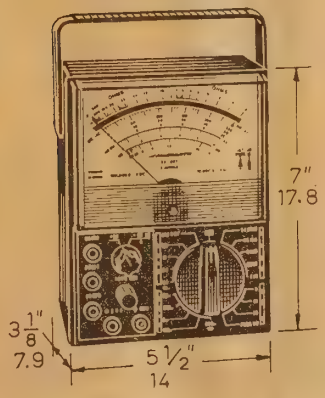
910-4549 ..... **Each 29.95**

50,000 OHMS/VOLT MULTITESTER

Model 4560. 43 ranges. DC Volts: 0-250 mV, 2.5-10-50-250-1000 at 50k ohms/volt; 0-125 mV, 1.25-5-25-125-500 at 25k ohms/volt. AC Volts: 0-10-50-250-1000 at 10k ohms/volt; 0-5-25-125-500 at 5000 ohms/volt. DC Current: 0-50 μA, 5-50-500 mA, 10A at 50k ohms/volt, 0-25 μA, 2.5-25-250 mA, 5A at 25k ohms/volt. Resistance: Rx1, Rx10, Rx100, Rx1000, Rx10k (10 center scale). Decibels: −20 to +62 in 8 ranges. Accuracy: ±3% DC, ±4% AC. Size: 6¹¹⁄₁₆×4⅞×2". With leads, batteries and instructions.

910-4660 ..... **Each 34.95**

MICRONTA® PRECISION-CRAFTED MULTITESTERS

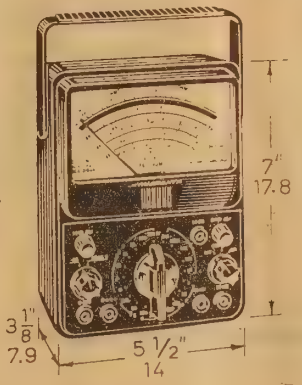


100,000 OHMS/VOLT MULTITESTER

- **Double Jeweled 5" Meter**
- **Meter Protection Circuit**

Model 22-207A. 28 ranges. Double-jeweled D'Arsonval 5 inch meter. Mirrored scale eliminates parallax for more precise reading. Meter protection circuit prevents overload damage. Reverse polarity switch. Carrying handle doubles as tilt stand for workbench. Ranges: DC Volts: 0-0.5-2.5-10-250-1000 at 100k ohms/volt. AC Volts: 0-5-10-50-250-1000 at 10k ohms/volt. DC Current: 0-10 μA, 50 μA, 500 μA; 5-50-500 mA, 10 A. Resistance: Rx1, Rx10, Rx1000, Rx10k, Rx100k (2 center scale). Decibels: −20 to +62 in 5 ranges. Accuracy: ±3% DC, ±4% AC. Size: 7×5½×3⅛". Supplied with leads, batteries and instructions.

910-4672 ..... **Each 49.95**

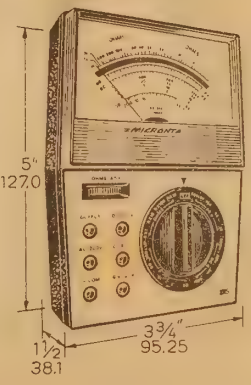


FET VOM
28 Ranges

- **1% Precision Resistors**
- **Double Overload Protection**

Model 22-208. The accuracy and high input impedance of a VTVM in a portable FET VOM. Ultrasensitive 25 μA meter features polarity reverse switch, zero adjust, single-knob range selector. DC Volts: 0-.3-1-3-10-30-100-300-1000 at 10 megohms. AC Volts: 0-3-30-100-300-1000 at 10,000 ohms/volt. DC Current: 0-100 μA, 3-30-300 mA, 10A. Resistance: Rx1, Rx10, Rx1000, Rx10k, Rx1M (10 center scale). Decibels: −20 to +62 in 5 ranges. Accuracy: ±3% DC and ±4% AC. Size: 7×5½×3⅛". With leads, batteries and instructions.

910-4673 ..... **Each 59.95**



20,000 OHMS/VOLT 25-RANGE MULTITESTER

- **Easy to Read and Use**
- **Color-Coded 4" Mirrored Scale**

Model 22-202. Single-knob range selector, 4" meter, mirrored and color-coded scales, 6-pin jack connections including output jack. DC Volts: 0-0.6-3-15-60-300-600-1200 at 20,000 ohms/volt. AC Volts: 0-15-60-150-600-1200 at 10,000 ohms/volt; DC Current, 0-60 μA, 3-30-300 mA; Resistance, Rx1, Rx10, Rx100, Rx1000 (24 center scale). Decibels, −20 to +63 in 5 ranges. Accuracy: ±3% DC, ±4% AC. Includes battery and test leads. 5½x3⅞x1½". (139.7x98.42x38.1mm). Weight 1 lb. (.454kg).

910-4655 ..... **Each 22.95**

17

VOM'S and VTVM'S

"BLUE LINE" VOLT-OHM-MILLIAMMETERS

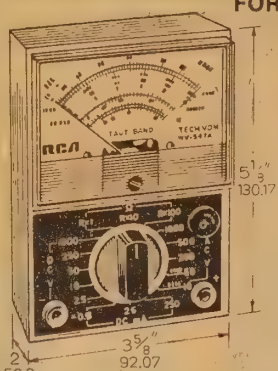
FOR SERVICEMAN, TECHNICIAN OR HOBBYIST

- Zener Diode Meter Protection
- Precision Resistors for All Ranges
- Attractive Dark Blue Cases
- Models to Meet Any Range or Sensitivity Requirements
- Temp. Compensated

A WV-547B TECH VOM

A tremendously precise instrument at an amazingly low price! Takes rugged treatment without loss of accuracy and will go anywhere for general-purpose testing and servicing applications. **DC Voltage:** 0 to 1000V in six ranges. **DC Current:** 0 to 250mA three ranges. **AC Voltage:** 0 to 1000V in five ranges. **Decibels:** -20 to +22dB; +22 to +35dB. **Resistance:** Rx1, Rx10, Rx100 (measures 1 ohm to 500K ohms). **Sensitivity:** DC Volt, 20,000 ohms/volt; AC Volt, 9000 ohms/volt. **Accuracy:** DC Volt, ±3% of full-scale reading; AC Volt, ±4% of full-scale reading. **Wt.** 10.5 oz.

901-4747. 1-3 ..... **Each 24.95** **4-Up** ..... **Each 22.45**



B WV-516A COMPACT LOW-COST VOM

Sensitivity: 2000 ohms/V AC-DC. **Ranges:** DC or AC rms Voltage: 0.1 to 1000 V in 4 ranges. **DC Current:** 10 mA to 250 mA in 3 ranges. **Resistance:** 2 ohms to 200k in two ranges. **Accuracy:** DC, ±3%; AC, ±4%. Separate pin jack for each function and range. With leads, battery, 2 1/2 x 4 15/16 x 1 3/8". **Wt.** 1 lb.

901-4716. 1-3 ..... **Each 18.00** **4-Up** ..... **Each 16.20**



C WV-518B 30,000 OHMS/VOLT VOM

Fuse protection on all switch ranges and functions. 3 color taut band meter with mirror scale. ABS plastic case with tilt stand. Measures DC voltages from 0.25 to 1000V in six ranges, AC voltages (RMS) from 10 to 1000V in four ranges, DC current from 0.05 to 250ma in 3 ranges plus 5 amp AC and DC current. Resistance from 0.5 ohm to 3 megohms in four ranges. Accuracy DC ±3%; AC ±4%. Sensitivity DC 30K ohms/V; AC 10K ohms/V with test leads. Requires two 1.5V penlite cells. 4 1/8 x 5 15/16 x 2 1/8", wt. 1 lb.

901-4718. 1-3 ..... **Each 42.00** **4-Up** ..... **Each 37.80**

D WV-519B 50,000 OHMS/VOLT VOM

Three-color aluminum panel. Three-color meter with mirror scale. DC polarity switch. **Sensitivity:** DC, 50K ohms/V; AC, 10K ohms/V. **Ranges: DC Voltage:** 5 mV to 1200 V in 8 ranges. **AC rms Voltage:** .01 to 1200 V in 6 ranges. **DC Current:** 5 uA to 12 A in 5 ranges. **Resistance:** 1 ohm to 1 megohm in 4 ranges. **Decibels:** -20 to +57 dB in 5 ranges. With 22.5 and 1.5 V batteries, leads. **Accuracy:** DC, ±3%; AC, ±4%. 4 1/4 x 6 3/8 x 1 7/8". **Wt.** 2 lbs.

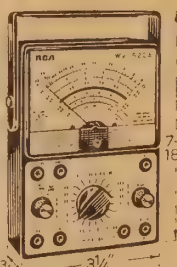
901-4719. 1-3 ..... **Each 52.00** **4-Up** ..... **Each 46.80**

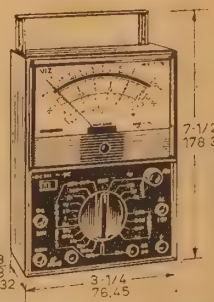
E WV-520B HIGH SENSITIVITY VOM

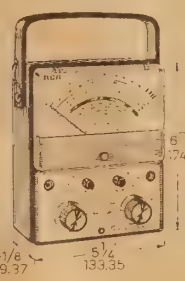
High sensitivity of 100k ohms/V DC, 10k ohms/V AC. Three-color meter, mirror scale aluminum panel. **Ranges: DC Voltage;** 10 mV to 1500 V in 8 ranges. **AC rms Voltage:** 0.1 to 1500 V in 6 ranges. **DC current:** .05 mA to 5 A in 6 ranges. **Resistance:** .5 to 20 megohms in 4 ranges. **Decibels:** -20 to +55.5 dB in 5 ranges. **Accuracy:** DC, ±3%; AC ±4%. Test leads, 3 1/4 x 7 1/2 x 2 3/8". **Wt.** 3 lbs.

901-4720. 1-3 ..... **Each 65.00** **4-Up** ..... **Each 59.40**





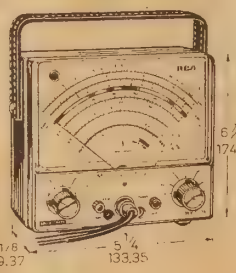




MODEL WV-500B SOLID-STATE VOLTOHMYST

Battery operated meter has ranges for both rms and peak-to-peak AC volts. Ideal for audio, radio, TV and industrial servicing and testing. Ranges: DC volts, 0-0.01-0.5-1.5-5-15-150-500-1500. AC volts (rms), 0-0.2-1.5-5-15-50-500-1500. AC volts (p-p), 0-0.5-14-42-140-420-1400-4200. DC current in eight ranges from 0.01 mA to 1.5 A. Seven overlapping resistance ranges from 0.2 ohms to 1000 megohms. AC frequency response (on 1.5 and 5 VAC ranges), ±1 dB, 30 Hz to 3 MHz. 6 7/8 x 5 1/4 x 3 1/8". With probe, batteries. Shpg. wt. 3 1/2 lbs.

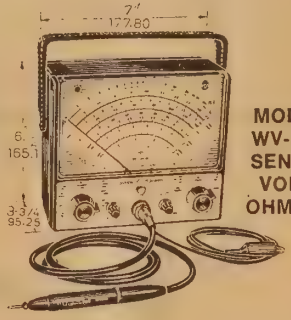
901-4700 ... Ea. 114.00 **4-Up ... Ea. 102.60**



MODEL WV-510A MASTER VOLTOHMYST

The perfect instrument for the professional who wants a quality testing tool, at an economical price. For a wide range of industrial, institutional and lab uses. Measures DC, 0.01-1500 volts, in 8 ranges; AC, 0.2-1500 volts; Direct Current from 0.01 mA to 1.5 A; AC p-p voltage from 0.5 to 4200 volts; resistance values from 0.2 ohm to 1000 megohms. Accuracy: ±3% of full scale reading. With WG-401A probe and cable, alligator clip, current leads, instructions. 110-135 V, 50-60 Hz AC. 6 7/8 x 5 1/4 x 3 1/8". Shpg. wt. 8 lbs.

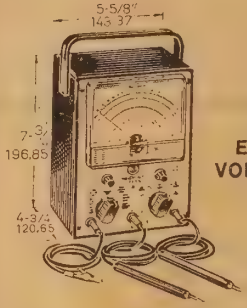
901-4710 ... Ea. 159.00 **4-Up ... Ea. 143.00**



MODEL WV-98C SENIOR VOLT-OHMYST

Electronic burnout protection. Rugged 200 μA meter movement and 1% precision resistors for high accuracy. 7 voltage ranges for AC p-p and rms V. 8 ranges for DC V. 7 resistance ranges. Reads AC rms and DC V to 1500; AC p-p V to 4200. 0.5 VDC scale. Resistance 0.2 ohm-1000 megs. DC input resistance 11 megs. AC input impedance from 830k ohms and 70pF to 1.5 megs and 60pF. Test probe, shielded cable, instructions. 6 1/2 x 7 x 3 3/4". Operates on 110-130 VAC. Shpg. wt. 6 lbs.

901-4598.... Ea. 129.00 **4-Up ... Ea. 116.10**

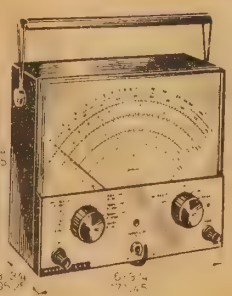


MODEL WV-77E ECONOMY VOLTOHMYST

Ranges: AC rms/DC volts: 0-1.5-5-15-50-150-500-1500; AC p-p volts. 0-4-14-40-140-400-1400-4000; resistance. 0-1000-10k-100k ohms; 0-1-10-100-1000 megohms. AC frequency response: 5% from 40 Hz to 5 MHz on 1.5, 5 and 15 V rms and 4, 14 and 40 V p-p range. Accuracy: DC, 3% of full scale; AC, 5% of full scale. Has individual scales for 1 1/2-V rms and 4-V p-p. 7 3/4 x 5 5/8 x 4 3/4". With ultra-slim probes and extra-flexible test-lead cables, instructions. 105-125 VAC. Shpg. wt. 5 lbs.

901-4577 .... Ea. 89.00 **4-Up .... Ea. 80.10**

HIGH ACCURACY VTVM FEATURING 16-MEGOHM INPUT



Model 312. Large easy-to-read 7" meter scale. Controls include multiposition range and function selectors, ohms and zero adjust. Voltage ranges (DC): 0-0.5, 1.5, 5, 15, 50, 150, 500, 1500 (16 megohms input impedance); AC (RMS): 0-1.5, 5, 15, 50, 150, 500, 1500 (1 megohm minimum input impedance). AC p-p volts: 0-4, 14, 40, 140, 400, 1400, 4000. Resistance ranges. RX1, RX10, RX100, RX1K, RX10K, RX100K, RX1M (10Ω center). Response: ±3%, 15 to 3 MHz. Accuracy: ±3% of full scale all voltage ranges; 3% of arc on all resistance ranges. For 117V operation. Wt. 5 lbs.

919-0312. 1-3 ... **Each 173.83** **4-Up** ..... **Each 149.00**

Model 0155 High Voltage Probe. Wt. 1 lb.

919-0155. 1-3 .... **Each 32.02** **4-Up** ..... **Each 27.45**

FET SOLID-STATE VOM



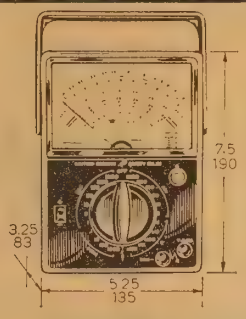
Model 310-FET. Reads resistance up to 5000 megohm and AC or DC volts up to 600. Input impedance is 10 megohms on DC. Handles 300 mV DC fullscale transistor measurements. Diode overload protection. Ranges: DC Volts: 0-3-1.2-6-30-120-600. AC Volts: 0-3-12-60-300-600 at 5000 ohms/volt. Resistance: 5K — 500K — 50MΩ — 5000MΩ with 50-ohm center scale. DC mA: 0.12-1.2. Accuracy: DC, ±3% of full scale: AC, ±4% of full scale. Size: 4 1/4 x 2 3/4 x 1 3/8". (6.99x3.33x10.80cm). With leads and alligator clips, batteries. Wt. 2 lbs. (0.908kg).

956-5311. 1-3 ..... **Each 92.00** **4-Up** .... **Each 87.40**

956-5370. Leather Case .... **Ea. 15.80** **4-Up** ..... **Ea. 15.00**

See Page 2 for the Allied Electronics Facility Nearest You

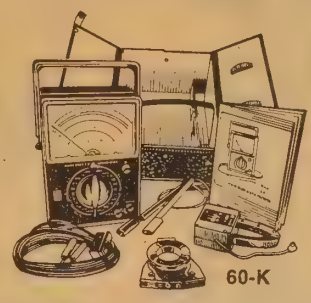
Portable Miniature and Standard VOM's



MODEL 60 VOM TYPE 2

Case constructed of extra rugged high impact safety orange thermoplastic. Withstands up to a 5 foot drop with less than ±4% deviation. Easy access to sealed battery and fuse compartments. Molded plastic handle allows tester to rest at 30° angle. All ranges are overload-protected by diodes and a unique 3 fuse arrangement, including ⅛ amp, 1 amp and 2 amp 1000V fuses. Safety design prevents explosive arcs in high energy circuits up to 2 amp / 1000V (20kW) fuse capacity. Meter features rugged suspension movement, easy to replace integral module, DC polarity reversing switch and special diode overload protection. Accuracy: ±2% DC; ±3% AC; (full scale). Ranges: DC Volts; 0-0.3-1-3-10-30-100-300-1000. Approx. 20,000 Ohms per Volt. AC Volts; 0-3-10-30-100-300-1000. Approx. 5,000 ohms per Volt. Ohms range: 0-1k-10k-100k-1MΩ-10MΩ (12 ohms center scale on low range). DC Microamperes range 0-100 at approx. 320mV. DC Milliammeters range 0-10-100-1000 at approx. 320mV. Uses batteries: NEDA 9V 1604 (1), 1 ½V 13F (1). Comes complete with 48″ safety leads, insulated alligator clips, batteries, spare ⅛A fuses and instructional manual. Size: 5¼″Wx7½″Hx3¼″D (13.33Wx19.05Hx 8.25D cm.). Shipping wt. 4 lbs.

956-6000. Ea. 102.00 ..... 4-Up 96.90

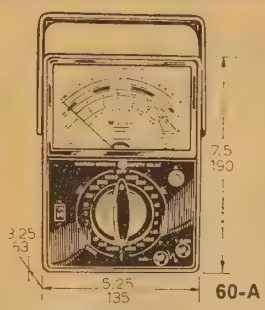


MODEL 60-K MAINTENANCE KIT

- **Includes Model 60 VOM Type 2**
- **Measures AC Amperes**
- **Isolates One Conductor of A Two Conductor Cable**
- **Operates on Batteries**
- **Overload Protected**

To extend the usefullness of the Model 60 VOM Type 2, it is also available in a maintenance kit form—Model 60-K. The kit is particularly valuable to individuals who also need to measure AC Amperes and who sometimes need to isolate one conductor of a two conductor cable. The Model 60-K Maintenance Kit comes complete with Model 60 VOM Type 2, Model 10 ammeter adapter, Model 101 line separator, Model 10 attachment lead, leather case, 48″ safety test leads, insulated alligator clips, batteries, spare ⅛A and 1A fuses, instruction manual and one year warranty. If you need to use these accessories, the complete kit makes them available at a reasonable price.

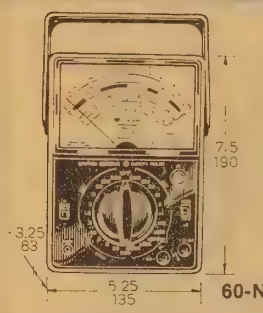
956-6010. Ea. 166.00 ..... 4-Up 157.70



MODEL 60-A VOM

This durably constructed VOM features a case of molded, black, high impact thermoplastic which can withstand up to a 5 foot drop without exceeding ±4% deviation from stated accuracy. Easy external access to sealed battery and fuse compartments. Plastic handle will hold tester at 30° angle. Ranges are overload protected by diode and unusual three fuse arrangement, including ⅛ amp, 1 amp, and 2 amp/1000V fuses. This safety design prevents explosive arcs in high energy circuits, up to the 2 amp / 1000V (20kW) fuse capacity. Meter is diode overload protected, rugged suspension movement, easily replaced integral module. DC polarity reversing switch, mirror scale, ½% resistors. Accuracy: ±1½% DC; ±3% AC; (full 4½″ scale). Ranges: DC Volts; 0-0.3-1-3-10-30-100-300-1000 (Approx. 20.000 Ohms per Volt). AC Volts: 0-3-10-30-100-300-1000 (Approx. 5,000 Ohms per Volt). Ohms range: 0-1k-10k-100k-1MΩ-10MΩ (12 Ohms center scale on low range). DC Microamperes range 0-100 at approx. 320mV. DC Milliammeters range 0-10-100-1000 at approx. 320mV. Decibles range —20 to +52 (″0″ dB at 1mW on 600 Ohm line). Uses batteries NEDA 9V 1604 (1), 1½V 13F (1). Comes complete with 48″ safety test leads, instruction manual, insulated alligator clips batteries and spare ⅛A and 1A fuses. Size: 5¼″Wx7½″Hx 3¼″D (13.33Wx19.05Hx8.25D cm.). Shipping wt. 4 lbs.

956-6020. Ea. 110.00 ..... 4-Up 104.50

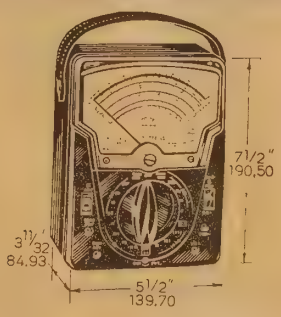


MODEL 60-NA VOM

This extra rugged VOM features 50 ranges with mirror scale and can withstand accidental drops up to five feet with deviation from stated accuracy not exceeding ±4%. Molded, gray, high impact thermoplastic case allows easy access to sealed battery and fuse compartments. Plastic handle will hold tester at 30° angle. All ranges are overload protected by diode and three fuse arrangement. This safety design prevents explosive arcs in high energy circuits up to 2 amp/1000V (20kW) fuse capacity. Meter is diode overload protected with rugged suspension movement, easily replaced integral module, DC polarity reversing switch, X2 range doubling switch, mirror scale, ½% resistors. Accuracy: ±1½% DC; ±3% AC (Full Scale). Frequency Response is ACV through 300 compensated from 20Hz to 20kHz. DC Volts range: 0-0.15-0.5-1.5-5-15-50-150-500 (Approx. 20,000 Ohms/Volt). X2 range 0-0.3-1-3-30-100-300-1000 (Approx. 10,000 Ohms/Volt). AC Volts: 0-3-15-50-150-500) Approx. 10,000 Ohms/Volt). X2 Range: 0-6-30-100-300-1000 (Approx. 5,000 Ohms/Volt). Ohms Range: 0-1k-10k-100k-1MΩ-10MΩ-100MΩ (6 Ohm center scale on low ranges). DC Microamperes range 0-50-500 at approx. 150 mV. X2 range 0-100 at approx. 300mV. Milliammeters range 0-5-50-500 at approx. 150 mV. X2 range 0-1-10-100-1000 at approx. 150 mV. Decibles Range: —20 to +52 (″0″ dB at 1mW on 600 Ohm line). Comes complete with 48″ safety test leads, insulated alligator clips, batteries, spare ⅛A and 1A fuses and instruction manual. Uses batteries: NEDA 30V 210 (1), 1½V 13F (1). Size: 5¼″W x 7½″H x 3¼″D (13.33W x 19.05H x 8.25D cm.). Shipping wt. 4 lbs.

956-6030. Ea. ... 140.00 4-Up ... Ea. 133.00

Allied Has Professional Test Equipment



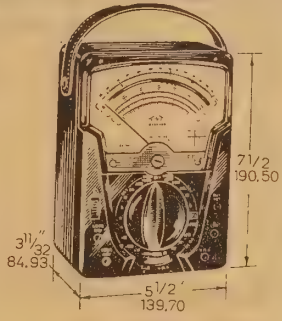
MODEL 630-PLK TYPE 6 VOM

Transistorized switching circuit protects meter movement and all components from overload damage. Sensitivity: 20,000 ohms/volt DC, 5000 ohms/volt AC. Accuracy: ±2% on DC, ±3% on AC. DC volts: 0-2.5-10-50-250-1000-5000 (20,000 ohms/volt) 0-0.25 @ 100μA AC volts: 0-3-10-50-250-1000-5000 (5000 ohms/volt). dB: −20 to +49 in 4 ranges. DC current: 0-100 μA (250 mV); 0-10-100-1000 mA (250 mV); 0-10 amps (250 mV). Ohms: 0-1000-10,000 (4.4-44 at center scale); 0-1-100 megs (4400-440k at center scale). Output volts: 0-3-10-50-250 (5000 ohms/volt). 7½×5½×3 11/32″. With test leads, batteries. Shpg. wt. 5 lbs.

956-5653 ... Ea. 136.00 4-Up ... Ea. 129.20

630-PL TYPE 4 VOM. has polarity reversing switch. Frequency response to 500 kHz. Sensitivity: 20,000 ohms/volt DC; 5000 ohms/volt AC. Accuracy: ±2% DC and ±3% AC. DC volts: 0-2.5-10-50-250-1000-5000 at 20,000 ohms/volt; 0-0.25 at 100 μA. AC volts: 0-3-10-50-250-1000-5000 at 5000 ohms/volt. DC current: 0-100 μA; 0-10-100-1000 mA; 0-10 amps. Resistance: 0-1k-10k, plus 0-1-100 megs. dB: −20 to +49 in 4 ranges. Output volts: 0-3-10-50-250 at 5000 ohms/volt. 7½×5½×3 11/32″. With leads, alligator clips, rubber feet, batteries, instructions. Shpg. wt. 5 lbs.

956-5651 .... Ea. 92.00 4-Up .... Ea. 87.40



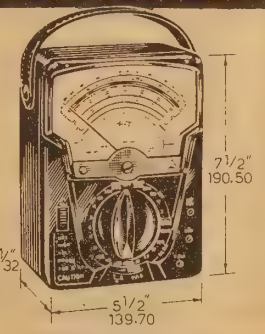
MODEL 630NA VOM

- **Single Selector Switch**
- **70 Ranges • 1½% DC Accuracy**
- **Handy Mirror Scale and Diode Overload Protection**

Single selector switch reduces chances of error in setting. Temperature and frequency compensation, usable with frequencies through 20 kHz. 4½″ easy-to-read mirror scale with unbreakable window. Special diode protected meter, and fuse protection in ohmmeter circuit prevents overloading and burnouts. Rugged new suspension meter movement.

Accuracy: ±1½% DC, ±3% AC. Ranges: DC volts: 7 ranges to 6000 (10k per volt); 7 ranges to 3000 (20k/volt); 1 range to 0.1260 μA). (AC volts: 6 ranges to 6000 (5000 ohms/volt); 6 ranges to 3000 10k per volt). dB, −20 to +51 in 8 ranges. DC μamps, 1 range to 120 (240 mV); 2 ranges to 600 (120 mV). DC mA: 4 ranges to 1200 (240 mV); 3 ranges to 600 (120 mV). DC amps, 1 range to 12 (240 mV); 1 range to 6 (120 mV). Ohms, 3 ranges to 100k, 3 ranges to 100 megs. Leads, clips, batteries. 5 lbs.

956-5645 ... Ea. 126.00 4-Up ... Ea. 119.70



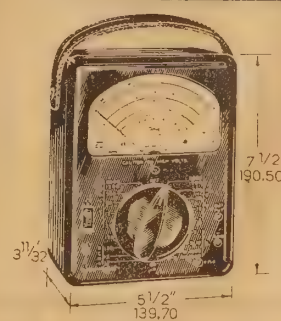
MODEL 630NS VOM

- **200,000 Ohms/Volt DC Sensitivity**
- **Rugged Construction with High Sensitivity and Repeatability**
- **No Rolling Friction in Movement**

Suspension meter movement has no pivots, bearings, hairsprings, etc. Extremely rugged. Special precision resistors are rigidly mounted. 20,000 ohms per volt for greater sensitivity on high resistance circuits. Input impedance is higher than on most VTVM's at 55 volts, DC and above. Accuracy is ±1½% DC, and ±3% AC.

Frequency compensated to 20 kHz. 20,000 ohms/volt AC sensitivity. Ranges: DC volts: 0-0.6-3-12-60-300-1200 at 100k ohms/volt. 0-0.3-1.5-6-30-150-600 at 200k ohms/volt. 0-0.150 at 60 μA. AC volts; 0-3-12-60-300-1200 at 10k per volt: 0-1.5-6-30-150-600 at 20k. per volt. dB, −20 to +51 in 8 ranges. DC current: 0-5-60-120-600 μA, and 0-1.2-6-12-60-120-600-1200 mA, plus 0-6-12 amps. Ohms: 0-1000-10k-100k-1 meg-10 meg-100 meg. (4.4-44-440, etc. at center scale). Shipped complete with leads, clips, and batteries. 7½×5½×3 11/32″. 5 lbs.

956-5648 ... Ea. 156.00 4-Up ... Ea. 148.20



MODEL 630 VOM

- **Single Selector Minimizes Chance of Incorrect Settings and Burnouts**
- **5000 Ohms per Volt AC Sensitivity and 20,000 Ohms per Volt DC**

Features 20,000 DC, 5000 AC ohms/volts sensitivity. Single 20-position switch selects both circuit and range. Fuse-protected ohmmeter circuit prevents burnout. Suspension movement.

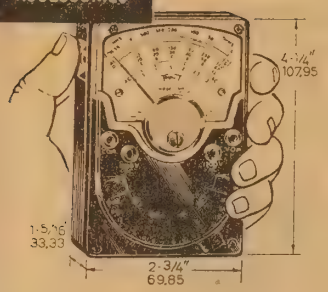
DC accuracy is ±2% and ±3% AC on all ranges. AC response, 5 Hz to 50 kHz. Ranges: DC and AC volts; 0-3-12-60-300-1200-6000; DC current, 0-60 μA, 0-1.2-12-120 mA, 0-12 amps. Resistance, 0-1000-10,000 ohms and 0-1-100 megs. dB, −20 to +51 in 4 ranges; output volts, 0-3-12-60-300. Jack with condenser in series with AC ranges. Sizes, 7½×5½×3 11/32″. Supplied complete with batteries, alligator clips, and test leads. Shpg. wt., 2 lbs.

956-5656 .... Ea. 86.00 4-Up .... Ea. 81.70

MODEL 630-A VOM. As above, but with ½% precision multiplier resistors for ±1½% accuracy on DC readings; ±3% accuracy on AC readings. 4⅜″ mirrored scale. With leads, clips, and batteries. Shpg. wt., 5 lbs.

956-5630 .... Ea. 97.00 4-Up .... Ea. 92.15

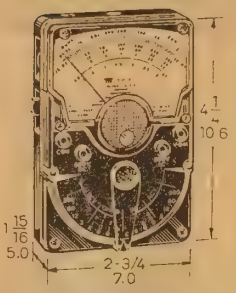
VOM's and Accessories



310 MINIATURE VOM

Miniature VOM is self-shielded, has spring-backed jewels for ruggedness. High-torque, bar-ring movement. Test prod fits into top for use as common probe, leaving one hand free. Accuracy: ±3% DC, ±4% AC. DC volts: 0-3-12-60-300-1200 (20,000 ohms/volt). AC volts: 0-3-12-60-300-1200 (5000 ohms/volt). Ohms: 0-20,000-200,000; 0-2-20 megs. DC current: 0-600 μA; 0-6-60-600 mA. Molded black case. Size: (WxDxH): 2¾x4¼x1⅝", (6.99x3.33x10.80 cm). With test leads, battery, manual. See Model 10 clamp-on AC ammeter adapter, below. Shpg. Wt. 2 lbs.

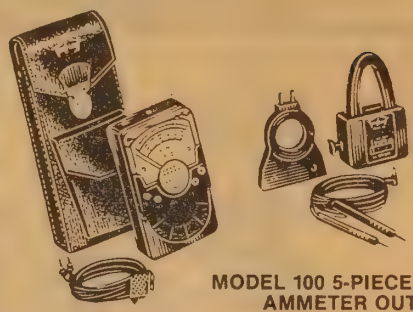
956R5312 ... Ea. 55.00 4-Up .... Ea. 52.25



310-C MINIATURE VOM

Similar to Model 310 at left, but with 600-volt ranges instead of 1200. Hand-size, with provision for attaching Model 10C clamp-on AC ammeter, below. Single, fully enclosed lever-range switch plus DC polarity reversing switch. Sensitivity: 15,000 ohms/volt on AC; 20,000 ohms/volt DC. Accuracy: ±3% DC, ±4% AC. DC volts: 0-3-12-60-300-600 (20,000 ohms/volt). AC volts: 0-3-12-60-300-600 (15,000 ohms/volt). Ohms: 0-20k-200k. 0-2-20 megs. DC current: 0-600 μA; 0-6-60-600 mA. Size; (WxDxH): 2¾x4¼x1⅝", (6.99x3.33x10.80 cm). With leads, battery. Wt. 2 lbs.

956-5310 .... Ea. 70.00 4-Up ... Ea. 66.50



MODEL 100 5-PIECE VOM/AC AMMETER OUTFIT

Includes **Model 310** pocket size VOM; **Model 10** clamp-on AC Ammeter Adapter; **Model 101** Line Separator; **Model 379** Carrying Case; **Model 311** Lead Attachment for separating VOM and Adapter. VOM has 20,000 Ω/volt AC sensitivity, 5,000 Ω/volt AC sensitivity. DC voltage ranges to 1200 volts in 5 ranges; current to 600 mA in 4 ranges; Ω to 20 megs in 4 ranges. Adapter converts 310 to ammeter; reads current in 6 steps. Separator increases ammeter sensitivity. Case holds 310 and 10 with pocket for 101 Separator. Wt. 7 Lbs. Save over cost of items when purchased separately.

956-5101 1-3 ..... Each 106.00 4-Up ..... Each 100.70

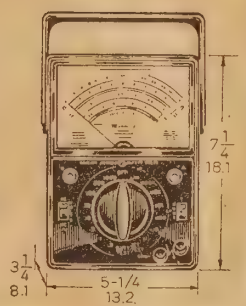
MODEL 100-C OUTFIT

Features **Model 310-C** VOM. 15,000 Ω/volt AC sensitivity, 20,000 Ω/volt DC. AC and DC voltage ranges to 600 volts. Polarity reversing switch. Includes **Model 10-C** clamp-on AC Ammeter Adapter; **Model 101** Line Separator; **Model 379** Carrying Case; **Model 311** Lead Attachment for separating VOM and Adapter. Wt. 7 Lbs.

956-5100 1-3 ..... Each 121.00 4-Up ..... Each 114.95

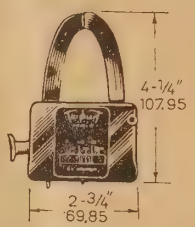
MODEL 64 VOM

- **Nine AC and DC Voltage Ranges**
- **Overload Protection to 1000 VAC**



Model 64 is overload protected in all ranges 0-100 VAC. Safety designed to prevent explosive arcs up to 2 amp/1000V (20 KW) fuse capacity. DC and AC volt ranges 0-0.3-1-3-10-30-100-300-1000. Accuracy is ±3% all ranges. Features AC-DC Ω switch which reverses polarity of test leads. Input capacity is 50pF maximum. Input resistance is 10 meg-ohm all ranges. Frequency compensation ranges 20 Hz to 20 KHz except 300 and 1000V. Low power Ω range 0-1K-10K-100K-1M-10M-100M with 10 Ω center scale. Max. voltage; 90mV. Decibels range 40 dB to +62 dB at ±3% accuracy at 60 Hz all ranges. Case is high impact thermoplastic with easy access to battery and fuse compartment. Size: 5¼"Wx 7¼"Hx3¼"D. Includes 48" test leads, insulated alligator clips, batteries, 1A fuse and instruction manual. Wt. 2¾ lbs.

956-0064 ..... Each 140.00
4-Up ..... Each 133.00



VOM and Adapter



Model 10 Ammeter Adapter

MODEL 10 AMMETER ADAPTER

Plugs into Model 310 or 310-FET to make a clamp-on AC ammeter. Can be used with any VOM with a 3-V AC scale at 5000 ohms/volt. Checks all line loads without breaking circuit. Six AC ranges; 0-6-12-30-60-120-300 amps. Clips around single wire for direct reading. Size; (WxDxH): 2¾x1¼x4¼" (6.83x2.86x11.11 cm). Shipping wt.: 1 lb.

956-5011 1-3 ... Each 26.30 4-Up ..... Each 24.99

Model 10-C. As above, but for Model 310C VOM.

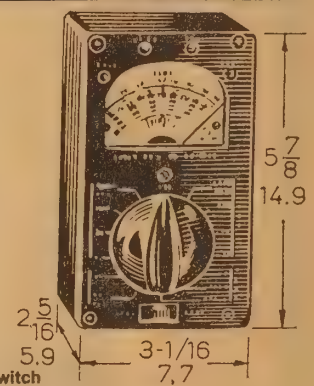
956-5010 ..... Each 26.30 4-Up ..... Each 24.99

MODEL 101 LINE SEPARATOR

Plugs into AC outlet to divide two-conductor cord. Increases Model 10 sensitivity 10X, 0.3-30 amps, AC in 9 ranges. Shipping wt.: 1 lb.

956-5102 1-3 ...Each 11.60 4-Up ..... Each 11.02

MODEL 666R POCKET VOM

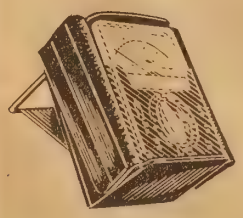


- **One Selector Switch**
- **Five AC and DC Voltage Ranges**
- **Three Resistance Ranges to 3 Meg.**
- **Pre-Calibrated AC Rectifier**

Model 666R is a handy tester for pocket or tool kit and has a single recessed selector switch. The AC rectifier is calibrated and pre-adjusted for easy replacement. Accuracy: ±3% DC; ±4% AC. AC/DC sensitivity: 1000 ohms per volts. Ranges: DC and AC volts: 0-10-50-250-1000-5000. DC current: 0-10-100 mA at 250 mV; 0-1 amp. at 250 mV. Ohms: 0-3000-300,000, 0-3 megs. Case is black molded, streamlined, handy pocket size; (WxDxH): 3 1/16x2 5/16x5 7/8" (7.78x6.35x14.92 cm). Model comes equipped with test leads, alligator clips, batteries and instruction manual. Wt. 3 lbs. Batteries: NEDA #15A, 14F.

956-5666 1-3 ...Each 62.00 4-Up ..... Each 58.90

ACCESSORIES



MODEL 639-N LEATHER CASE

For **Model 630** Series. Center cover flaps snap back allowing full view of scales and permitting complete access to instrument in case. Tester stand available at extra cost.

956-5662 .... 1-3 Ea. 22.28
4-Up ..... Ea. 20.10



MODEL 639 LEATHER CASE

For **Model 630** Series. This black leather case protects your VOM's wherever they go. Has sturdy carrying handle, stitched around edges and metal clasp keeps lid securely closed.

956-5664 ..... Each 22.30
4-Up ..... Each 20.10



MODEL 369 LEATHER CASE

Black case for **310, 310-C** Portable Miniature **VOM's** listed above. Trouser belt slips through loop on back of case for convenient out-of-the-way carrying.

956-5369 .... 1-3 Ea. 10.00
4-Up ..... Ea. 6.70



MODEL 379 LEATHER CASE

For **310** and **Model 10** clamp-on ammeter combination. Has pocket for **Model 101** line separator. All items listed above. Black leather, with strap. Weight 1 Lb.

956-5379 .... 1-3 Ea. 14.23
4-Up ..... Ea. 12.80

TEST LEADS

TYPE 611 LEADS. For model 10 AC-Ammeter Adapter (above) when used with 630 series (or with any VOM having a 3 volt AC scale at 5000 ohms/volt). Long lead attachment. Wt. 10 oz.

956-0611 .... Each 6.86 4-Up ..... Each 5.20

TYPE 79-153 LEAD. Needlepoint. For 310 and 310C. Shipping wt.: 10 oz.

956R3727 ... Each 6.86 4-Up ..... Each 5.20

TYPE 311 LEADS. Allows separate use of Model 10 AC-Ammeter with series 310 test equipment. Wt. 10 oz.

956-0311 .... Each 8.57 4-Up ..... Each 5.20

TYPE 79-374 LEAD. Safety test leads. 48" long for Model 60 Series.

956-5710 .... Each 6.86 4-Up .....Each 5.50

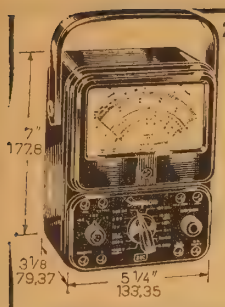
TYPE 79-127 LEAD. Test leads. 48" long for Model 630 Series and 666R.

956-5270 .... Each 6.86 4-Up ..... Each 5.20

TYPE 79-70 HIGH VOLTAGE PROBE. Insulated polystyrene with guard-type handle. 11¾" long with 48" high voltage wire lead. For Models 630, 630A and 615. 0-30 kVDC.

956-3700 ... Each 31.50 4-Up ...Each 28.40

260® Family of Protected VOM's and Amp-Clamp



260® ORIGINAL VOM—THE INDUSTRY STANDARD

- External Access Fuse and Battery Compartment
- 0–1 VDC and 0–500 V Ranges
- Easy-to-Read 2-Color Scales
- Polarity Reversing Switch

Model 260-6. The original 260 VOM—precision made for dependable operation on the bench, or "on the go." Battery-operated portable is ideal for use wherever quick, accurate electrical checks must be made. Multi-purpose screw-on test leads have combination probe and alligator clips.

Features excellent linearity and stability. Modified full-wave bridge circuit gives accurate AC measurements. Precision movement is of shock-resistant taut-band construction for long life. Varistor-protected against meter overloads. Self-shielded movement cannot be affected by magnetic fields. Uses only two batteries—one 9-volt and one "D" cell.

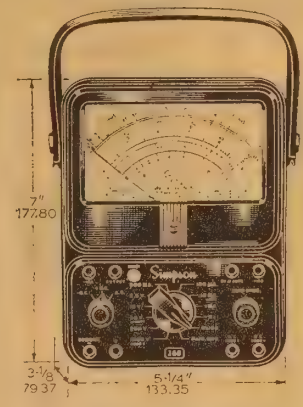
Handle also serves as a convenient stand for bench use. Takes optional "Add-A-Testers" below. With batteries, test leads, operating manual. Size, 7x5¼x3⅛". Shpg. wt. 5 lbs.

Basic Model 260-6. As described above.
919R0253 ..... Each 97.42 Up ..... Each 83.50

Model 260-6RT. Same features as above but with roll-top protective case.
919-0257 ..... Each 109.67 4-Up ..... Each 94.00

Model 260-6M. Same features as 260-6 but with mirrored dial to elimiate possible parallax errors in the readings.
919-0254 ..... Each 101.03 4-Up ..... Each 86.60

260-6MRT. Same features as 260-6 but with roll-top case and mirrored dial.
919-0255 ..... Each 113.33 4-Up .... Each 97.15



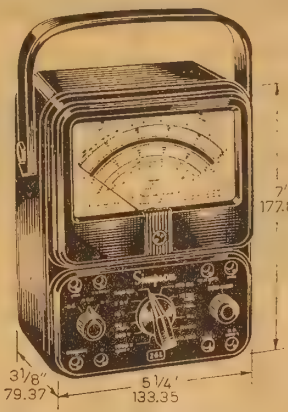
OVERLOAD PROTECTED

- Circuit Breaker Reset Button Pops Out to Indicate Overload
- Taut Band Meter Movement
- Polarity Reversing Switch

Model 260-6P. Highly versatile meter features overload protection that's particularly valuable where the instrument may be used by inexperienced students or operators new on the job. Reset button on built-in circuit breaker pops out indicating overload to protect circuits. Button cannot be reset while overload remains present.

All ranges are protected except those not feasible in a portable instrument—1000 volts DC and AC; 10 amp DC. Has many deluxe features including taut band meter construction, polarity reversal switch, and self-shielded meter movement. 7 x 5¼ x 3⅛". Sh. wt. 5 lbs.

919R0256 ..... Each 145.77
4-Up ..... Each 124.95



EXTRA-ACCURATE VOM

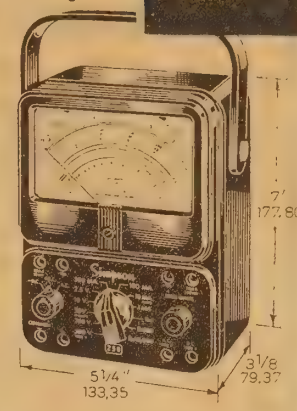
- Protected Taut-Band Movement
- Temperature Compensated
- Anti-Parallax Mirror Scale
- Special Calibration Circuit

Model 270-4. In addition to all the features and ranges of the 260-6M, this instrument includes enough more to make it the most accurate VOM in the 260 series. Accuracy is ±1.25% DC, ±2% AC, ±1.5° of arc on Rx1, ±1° of arc on Rx100 and Rx10k.

Has mirror scale and knife edge pointer. Varistor-protected against meter overloads. Polarity reversing switch. With batteries, leads, manual. 7x5¼x3⅛". Shpg. wt. 5 lbs.

919-0270 ..... Each 121.27
4-Up ..... Each 103.95

Model 270-4RT. As above but with roll top protective case.
919-0271 ..... Each 133.52
4-Up ..... Each 114.45



FOR SOLID-STATE USE

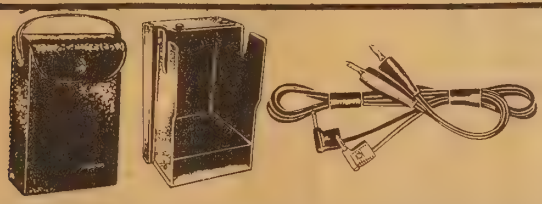
- Low Loading on Current Ranges
- Special 0–50 mV DC Range
- Precision Taut-Band Movement
- Self-Shielded Meter

Model 250. Precision instrument is designed for testing solid-state circuitry and other low-voltage, low-current applications. Compact and rugged; provides quick and accurate electrical checks. Voltage drop on current ranges is just 50 mV; gives less circuit loading for testing conditions closer to actual operating conditions.

Has 0-50 DC millivolts range offering the low-voltage accuracy required on today's complex solid-state equipment. Self-shielded taut band movement is varistor-protected to 20,000% overload. Complete with batteries, test leads, operator's manual. 7x5¼x3⅛", Shpg. wt. 4 lbs.

919-0250 ..... Each 107.22
4-Up ..... Each 91.90

ACCESSORIES FOR 260 SERIES VOM'S



CARRYING CASE

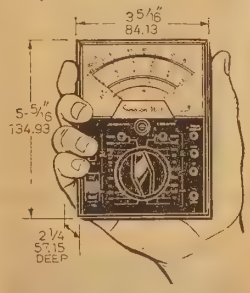
Fits Models 260-6, 260-6P, 270-4 and 250 VOM's on this page. Shpg. wt. 2 lbs., (0.908 kg).
919-0805. Type 00805. Vinyl. **1-3 ..... Each 28.28**
4-Up ..... Each 24.25
919-1818. Type 01818. Leather. **1-3 ..... Each 23.10**
4-Up ..... Each 19.80
Type 00549. Vinyl, with space for tools, leads or accessories.
919-0549. 1-3 ..... Each 32.02 4-Up ..... Each 27.45

TEST LEADS AND PROBES

Use with Models 260-6, 260-6P, 270-4 and 250, above. **Type 00115.** Combination probe tip leads with removeable clips. Shpg. wt. 1 lb., (.454 kg).
919R0115. 1-3 .... Each 10.15 4-Up ..... Each 6.92
Type 07500. Banana plugs, alligator clip leads, color-coded pair. Wt. 1 lb., (.454 kg).
919R7500. 1-3 ..... Each 8.22 4-Up ..... Each 5.05
Type 00168. 30kV DC probe. Wt. ½ lb., (0.227kg).
919-0509. 1-3 ..... Each 30.33 4-Up ..... Each 26.00

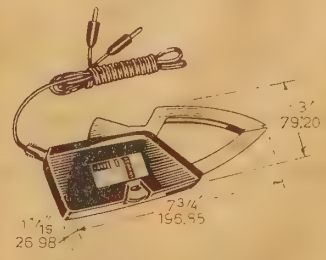
SPECIFICATIONS FOR 260 FAMILY VOM's

RANGES	Model 250	Model 260-6	Model 270-4
DC Volts	0-0.50; 0-0.250; 0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000	0-0.250; 0-1; 0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000	
AC Volts	0.25, 0-10; 0-50; 0-250; 0-500; 0-1000	0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000	0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000
DC Microamps	0-50 (Both 50 and 250 MV Drop)	0-50 (250 MV Drop)	
DC Milliamps	0-1; 0-10; 0-100; 0-500 (50 MV Drop)	0-1; 0-10; 0-100; 0-500	
DC Amperes	0-10 (50 MV Drop)	0-10 (350 MV Drop)	0-10
AC Amperes	Up to 250 AC Amps with Optional Amp-Clamp Adapter, Model 150		
Decibels (1mW-600Ω)	−20 to +10; −8 to +22, +6 to +36; +20 to +50	−20 to +10; −8 to +22; +6 to +36; +20 to +50	
Output Ranges	None	0.1 mid capacitor in series with all AC voltage ranges through 250 volts	
Resistance	Rx1, 0-2000V (12Ω ctr.); Rx100; 0-200KΩ (120Ω ctr.); Rx10K, 0-20 MegΩ (120KΩ ctr.)		Rx1, 0-2000Ω (12Ω ctr.); Rx100, 0-200KΩ (1200Ω ctr.); Rx10K; 0-20 MegΩ (120KΩ ctr.)
Temperature	None	None	None
Accuracies			
0-50mV, 0-250mV 0-1 to 0-1000VDC	±2% F.S.	±2% F.S.	±1.25% F.S.
0-50 Microamps	.....	.....	±0.75% F.S.
0-1mA to 0-10ADC	±2% F.S.	±2% F.S.	±1.25% F.S.
Rx1 Rx100, Rx10K	±2.5° of arc ±2.0° of arc	±2.5° of arc ±2.0° of arc	±1.5° of arc ±1.0° of arc
0-2.5 to 1000VAC	±3% F.S.	±3% F.S.	±2% F.S.
Movement Type	Taut Band Self-Shielding Annular		
Scale Length	4.2 Inches		



POCKET-SIZE HANDI-VOM

Model 160. Self-shielded taut-band movement is varistor protected, features high repeatability. 1-volt jack for easy transistor measurements. Recessed range selector switch; separate battery compartment. 250 mV drop at 50 μA. **Ranges:** Voltage: 0-0.25-1.0-2.5-10-50-250-500-1000 VDC at 20,000 ohms per volt sensitivity; 0-2.5-10-50-250-500-1000 VAC at 5000 ohms per volt. Current: 0-50 μA, 0-1-10-100-250-500 mA. Resistance: 1, 10, 100, 1k, 10k, (30 ohms center scale). Accuracy: AC, ±3% of full scale; DC, ±2% of full scale. 2¼x3⁹⁄₁₆x5⁹⁄₁₆". With leads, batteries, manual. Wt. 6 lbs.
919-0160. 1-3 . Ea. 85.17 4-Up . . Ea. 73.00
Type 2055 Probe-Tip Leads. Wt. 1 lb.
919-2055. 1-3 . . . Ea. 7.78 4-Up . . . Ea. 5.20
Type 2929 Plastic Carrying Case. Has space for VOM, test leads, probes. Wt. 2 lbs.
919-2929. 1-3 . Ea. 21.00 4-Up . . Ea. 18.00
Type 2225 Leather Carrying Case. Has space for VOM, test leads, probes. Wt. 2 lbs.
919-2225. 1-3 . Ea. 17.62 4-Up . . Ea. 15.10



MODEL 150 AMP-CLAMP CLAMP-ON AC AMMETER

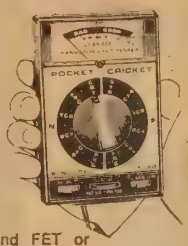
Permits measuring AC currents up to 300 amps without opening the circuit. Simply clamp the unit onto the wire carrying the current to be tested. Increases the range and versatility of any VOM having a 2.5 or 3-volt scale. Offers AC current measurement in six ranges—5, 10, 25, 100 and 250 amps on a 2.5-volt scale: 6, 12, 30, 60, 120, 220, 300 amps on a 3.0-volt scale. Using a VOM with 5,000 ohms per volt sensitivity, accuracy is ±3%. Has voltage-limiting zener diodes across output. Thumbwheel selector switch. Conversion chart in handle. Rugged high impact plastic case. Complete with 4-ft. meter leads and test plugs. Size, 7¾x3x1⁹⁄₁₆". Shpg. wt. 1 lb.
919R0150. 1-3 . Ea. 36.87 4-Up . . Ea. 31.60

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See Page 2 for the Allied Electronics Facility Nearest You

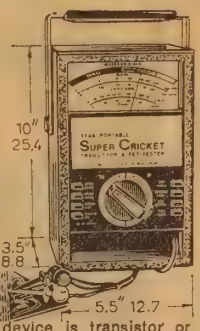
Transistor and IC Test Equipment

"POCKET CRICKET" TRANSISTOR AND FET TESTER

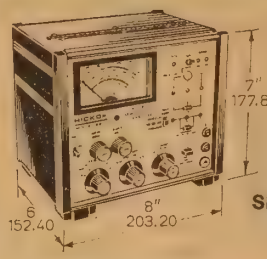


Model TF40. Can be carried in your pocket, but Cricket is tough enough to stand up to rugged work in the field or on the bench. Takes no set-up data, yet will locate transistor leads automatically. Tests all transistors and FET's for simple phase inversion capability rather than actual gain in numbers. Rotate the large knob until it "chirps"; that's the right set-up. Identifies polarity and FET or bi-polar type. Leakage test. Uses 9-volt standard or rechargeable batteries. Applied voltages: Vbe (test signal) = 8V p-p. Vce (bias voltage) = ±4.5 VDC. Applied Currents: Ib = 10 mA max., 5 mA cont. Ic = 12 mA max., 6 mA cont. Size. 6x4x1¼. Wt. 14 oz.
941-0040. 1-4 ..... Ea. 125.00 5-Up ... Ea. 112.50
Model PA208. AC Adapter/Battery Charger.
941-2500 ..... Each 9.95

PORTABLE "SUPER CRICKET" TRANSISTOR AND FET ANALYZER



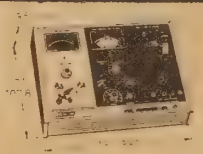
Model TF46. Checks transistors/FET/diodes in or out of circuit for matching, gain and leakage — on the bench or in the field. Connect leads in any order and rotate the knob; "chirp" and "Good" meter reading tells if device is good. Then, push automatic buttons for gain, leakage, Idss. Identifies all 3 leads of device from highest gain reading; tells polarity, determines if device is transistor or FET. Total test takes only seconds. Special diode test. Automatic power shut-off after 10 minutes to save batteries. Needs no set up book or instructions. Powered by six "A" batteries. Lead storage. Size: 5½x3½x1". Wt. 3½ lbs.
941-0046. 1-3 ..... Each 225.00 4-Up ..... Each 202.50
941-2500. PA208. AC Adapter/Charger ..... Each 9.95



MODEL 220 IN OR OUT OF CIRCUIT SEMICONDUCTOR ANALYZER

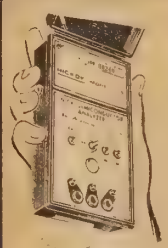
- **Quick Tests on All Semiconductor Types — In or Out of Circuit**
- **Good-Bad Display**
- **Lead Identification**

Troubleshoot solid-state circuits without your soldering iron! The Model 220 is an in-circuit measuring device that automatically nulls out the in-circuit loads and even indicates the proper leads. Does rapid tests on all types of semiconductors — IN or OUT of circuit. LED displays give Good-Bad indication and identify the device leads. Beta or FET transconductance measurement on three meter ranges, in or out of circuit; automatic Beta and transconductance calibration for one-step operation; in-circuit resistance measurement using low voltage; leakage measurement for diodes or transistors in or out of circuit. Storage space for test leads and line cord. Size: 7x8x6". For 120 VAC, 50-400 Hz.
699-0220. 1-3.... Each 359.00 4-Up..... Each 323.10



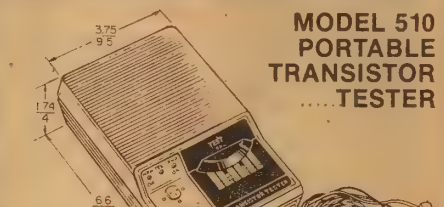
MODEL 530 SEMICONDUCTOR TESTER

Lab-quality unit measures fT, Beta, FET Gm and leakage. Has transistor gain-bandwidth product measurement capability for bipolar transistors, up to 1500 MHz. Non-destructive testing of transistor, SCR and diode breakdown to 100 volts; plus reverse leakage and gain of all transistor types, including power FETs. Fast and easy to use; no charts, tables or calculations needed for basic testing. Dynapeak™ circuitry allows accurate in-circuit testing and lead identification of diodes, transistors, FETs and SCRs, even in low-impedance circuits. Even the new vertical power FETs can be tested. Bright LEDs indicate whether transistor is good, identify leads, and tell if it's an NPN, PNP, or N- or P-channel FET. Two Beta ranges; low/high power Gm test; three fT ranges. Jacks and test leads are color-coded. Power required: 105-125 VAC, 60 Hz. 10¼x13½x4". Wt. 5 lbs.
731-0530. 1-3.....Each 310.00 4-Up.....294.50



MODEL 215 POCKET AUTOMATIC SEMICONDUCTOR TESTER

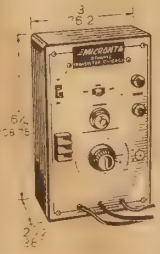
This lightweight, easy-to-use portable tester gives instant Good-Bad analysis of NPNs, PNPs, FETs and diodes, IN or OUT of circuit. It weighs just 12 ounces and slips easily into or out of your pocket. Operates on standard 9-volt batteries. Simple operation — no need to look in the book to find emitter, base or collector leads. Just connect leads in any order, IN or OUT of circuit. The 215 automatically and instantly determines lead configuration, and tells you, with an LED display, if the semiconductor is Good or Bad. If Good, it identifies which lead is the base and whether NPN or PNP. Also tests SCRs and "unijunctions". Solid-state design of the 215 is based on low-power CMOS circuitry that extends battery life. Will not damage semiconductor components under test. Shpg. wt. 12 oz.
699-0215. 1-3 ..Each 138.00 4-Up ..Each 124.20



MODEL 510 PORTABLE TRANSISTOR .....TESTER

Uses digital high current, low duty cycle pulse-testing technique to test semiconductors even with resistive and capacitive shunt impedances. Fast GO/NO-GO in-circuit transistor testing. Fast and thorough GOOD/BAD out-of-circuit testing. Tests FET's and SCR's in-circuit or out-of-circuit. Connect any test clip to any component lead. Gives positive emitter-base-collector identification on LO drive — positive base identification in HI drive. Light-Emitting Diodes indicate NPN-OK or PNP-OK. Power requirements: 6VDC from four "AA" cells, not supplied. Standby current, 4 mA; average testing current, 12 mA. Carrying case and test leads are supplied. Size (HWD): 1.75x3.75x6.6" (4x9.5x17cm). Weight: 1 lb. (0.45kg).
731-0510. 1-3.... Ea. 97.00 4-Up ..... Ea. 92.15

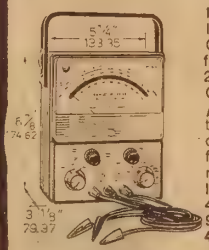
ECONOMY TRANSISTOR CHECKER



- **Go/No-Go Test**
- **Current Gain Test**
- **In and Out of Circuit Tests**

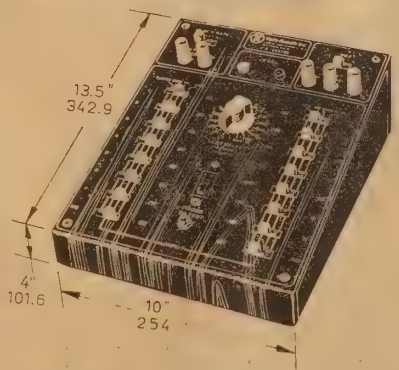
Model 22-024. Go/No-Go test indicates open and short circuits; has current gain test on quick-check front panel. Tests all low, medium and high power transistors IN or OUT of the circuit. Also checks diodes and PNP and NPN transistors. Comes complete with clip leads. Size: 6¼x3x2½". Shpg. wt. 2 lbs.
910-4524 ..... Each 15.95

PORTABLE TRANSISTOR CHECKER

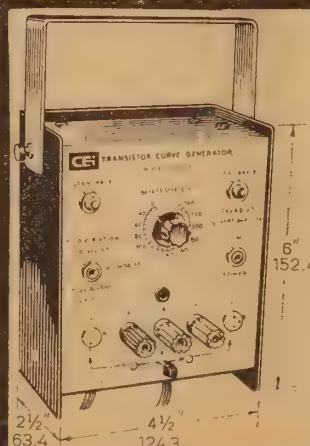


Model WT-501A. Tests high and low power transistors, IN or OUT of circuit. Checks DC Beta from 1 to 1000, ICBO down to 2μA, ICEO from 2μA to 1 amp. Collector current adjustable 20 μA to 1 amp in 4 ranges for testing most transistors at rated current. NPN and PNP sockets for matching transistors. Tests relative diode F/B ratio. With leads, batteries. 6⅞x5¼x3⅛". 4 lbs.
901-4501. 1-3 .....Each 95.00
4-Up .....Each 85.50

PORTABLE DIGITAL INTEGRATED CIRCUIT TESTER



Model IC-592. For use in conjunction with published IC specifications for proper programming of the IC under test. 4-position slide switches for each of 16 pins allow selection of VCC, Gnd, Clock or Nc (no connection). Single switch for 5 or 15 volt logic changes all input and output monitoring circuits. 3-position switch selects one or two internal clock frequencies on external mode. 5-way binding post may be used for attaching pull-up and load resistors or 'scope monitoring. Input: internal square wave of 2 Hz or 15 kHz or external. Test Voltages: 5 or 15 VDC. Uses standard "C" cells. Size: 13½x10x4". Wt. 4 lbs.
838-1650 .....Each 257.00

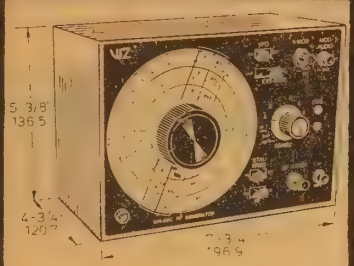


ALLIED SOLID STATE TRANSISTOR CURVE GENERATOR

Model TCG-1. Tests FET's, MOSFET's, diodes, zener diodes, tunnel diodes and more. Identifies unknown transistor types. Checks NPN and PNP types consecutively without changing controls or polarity switches. Tests dynamic characteristics plus collector current vs. voltage family or curves. Compatible with most scopes. Built-in calibrator for vertical/horizontal scope and channels. Regulated power supply. 115 VAC. **Collector Supply.** Voltage range: normal mode, ±10V, 550 Hz sawtooth and 500 ohms source imped; breakdown mode, ±200V, 60 Hz sine wave plus 100,000 ohm. **Step Generator.** Base current ranges from ±.02 mA to ±0.2 mA per step. Continuously variable. No. of Steps: 10. **Internal Display Calibrator.** Vertical: ±0.2V. Horizontal: ±4V.
766-0001 .....Each 98.88
766-0002. Detailed Instruction Book 2.12

Audio, RF, Pulse, and Function Generators

ASSORTED TEST GEAR

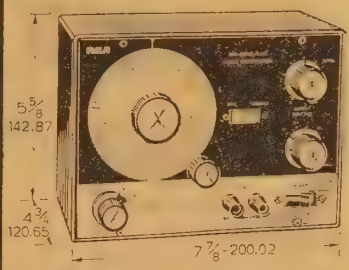


RF SIGNAL GENERATOR

• Features Special Sweep Output

Model WR-50C is designed for aligning and servicing radio and TV receivers. Generator produces tunable RF output from 85 kHz to 40 MHz, 600 Hz audio output and sweep output at 455 kHz and 10.7 MHz. Crystal-controlled oscillator is provided for use with external crystal. Two-position attenuator switch, with variable attenuator control provides complete adjustment of RF output, 0.05 rms volt min., all ranges. Sweep output is 455 kHz and 10.7 MHz for sweep alignment of AM and FM IF circuits. Return-trace blanking circuit is included to provide zero-reference line. Power supply, 105-130 volts, 50-60 Hz (changeable to 240 volts 50-60 Hz). Power consumption, 15 watts. 5 lbs.

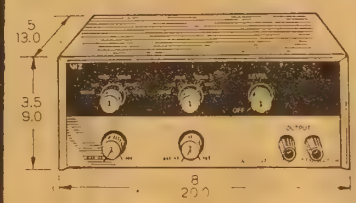
901-1050. 1-3 ..... **Each 120.00**
4-Up ..... **Each 108.00**



AUDIO SINE/SQUARE-WAVE GENERATOR

Model WA-504B/44D. Solid-state throughout. Features include constant 600-ohm output impedance. Excellent for frequency-response tests, general audio testing, troubleshooting and design work. Frequency range, 20 Hz to 200 kHz (four ranges). **Sine wave-output voltage** (100,000 ohms, 75 pF load), 10 p-p volts min. **Square wave output voltage**, 10 volts p-p. Power supply, 108-132 volts, 50-60 Hz (can be changed to 240 volts, 50-60 Hz). Power consumption, approximately 8 watts. Size: 7⅞x5⅝x4¾". Shpg. wt. 5 lbs.

901-1504. 1-3 ..... **Each 129.00**
4-Up ..... **Each 116.10**

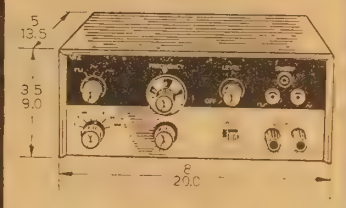


PULSE GENERATOR

• Compact and Easy-To-Use

Model WR-549A is a compact and easy to use source of digital pulses. Pulses can be varied over ranges from 5 Hz to 5MHz with 5% accuracy, positive, negative or square wave. Pulse width and repetition rate are independently adjustable 100nsec.-0.1sec. Output adjusts for both TTL and CMOS ranging 15 volts P-P at impedance of 100 ohms. Input voltage is 105-125 VAC 60 Hz. Input Power: 5 watts. This instrument is most useful and versatile available for logic designers or digital trouble shooters. Size: 8x5x3.5" (20x13x9 cm). Wt. 1.5 lbs. (0.68 kg).

901-1549. 1-3 ..... **Each 119.00**
4-Up ..... **Each 107.10**

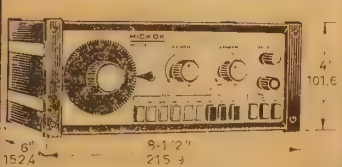


FUNCTION GENERATOR

• Solid-State
• Compact, Light Weight

Model WR-550A Function Generator is a compact, light weight, solid state source of digital logic wave forms. Includes square wave, triangle and sine wave, both fixed TTL compatible and adjustable 0-20 volts P-P. The adjustable outputs have D.C. offset control, adjustable to ±10 volts DC, at 600 ohms. The WR-550A covers a frequency range (all wave forms) from 1 Hz to 100 kHz. Frequency accuracy is held to ±5%, with overall stability of 200 PPM/C. Distortion is less than 3% from 1 Hz to 100 kHz.

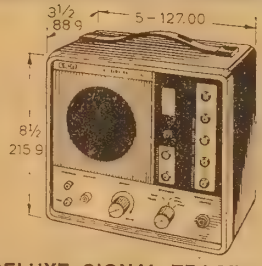
901-1550. 1-3 ..... **Each 139.00**
4-Up ..... **Each 125.10**



FUNCTION GENERATOR

Model 270. This function generator provides sine, square, and triangle waves from 1 Hz to 500 kHz in six ranges, with both step and variable attenuation, variable DC offset (±6 V) and 24 volts P/P output at 600 ohm impedance. Generator also has capability (rear panel in-put) for AM and FM modulation, sweep, ramps, pulses, mixed output, plus FSK and Tone Burst. Has many uses in Audio and TV service, the test laboratory, the 2-way radio shops plus experimentors and Ham radio operators. Power Required: 105-125 VAC or 210-250 VAC. 50-400 Hz. 10 watts. Size: (W×H×D). 8½×4×6". 4 lbs.

699-0270 ..... **Each 199.00**
4-Up ..... **Each 179.10**



DELUXE SIGNAL TRACER

• Checks Radios, Tuners, Amplifiers
• 400 Milliwatt Continuous Output
• Supplied Complete with Probe

MODEL 150W. Checks radios, amps and tuners stage-by-stage to determine where the problem lies. Has RF and audio inputs with probe. Provides 400 mW continuous power output. Built-in speaker, plus calibrated meter output indicator. Substitution amplifier, output transformer. For 117 VAC. Includes test probe. Size: 3½x8½x5". Shpg. wt. 6 lbs.

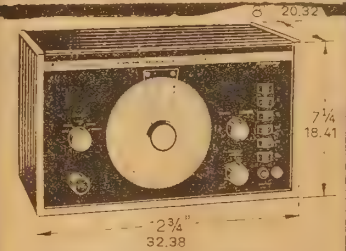
775-0150 ..... **Each 129.95**
4-Up ..... **Each 123.45**



DIGITAL IC LOGIC PROBE

Detects one-shot, low-repetition-rate, narrow pulses. Unique circuitry makes it a level detector, pulse detector and pulse stretcher. Hi-LED indicates logic "1". Lo-LED is logic "0". Pulse LED displays pulse transitions to 300 nanoseconds, blinds at 3 Hz for high-frequency signals (up to 1.5 MHz). Nonsymmetrical duty cycles of less than 30% light Lo-LED; over 70% light Hi-LED. Input impedance: 300K ohms. Overvoltage and reverse-polarity protected. With 36" power cables.

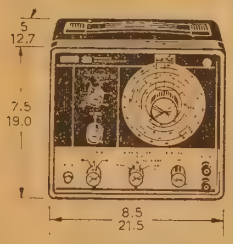
910-4680. 22-300 ..... **24.95**



SOLID STATE SINE/SQUARE WAVE SIGNAL GENERATOR

MODEL E310B. Includes FET in oscillator, silicon transistors and zener-regulated power supply. Fully shielded. Large 5" dial scale with 12 to 1 gear ratio drive. Continuously variable output control, plus 6 step attenuator. Fast sine wave rise time, less than 100 nanoseconds. Frequency calibration accuracy, ±3%. 3-wire grounded AC line cord. **Sine Wave.** Freq. range, 20 Hz to 2 MHz in 5 decade ranges. **Square Wave.** Freq. range, 20 Hz to 200 KHz in 4 ranges. Power req., 100-130 VAC, 50/60 Hz. 15 watts. 9½ lbs.

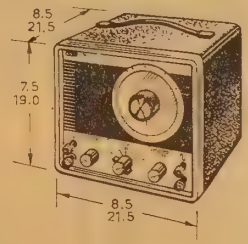
731-0310. 1-3 ..... **Each 175.00**
4-Up ..... **Each 166.25**



RF SIGNAL GENERATOR

Model 330 RF Signal Generator is invaluable for aligning TV sets, AM-FM radios and other communications equipment. The vernier control allows you to set RF frequencies accurately, ranging from 100 kHz to 54 MHz in 5 bands. A low distortion 400 Hz signal is generated by a parallel "T" feedback circuit. The signal is available for testing audio equipment and the audio section of radios or TV sets; and to modulate all RF frequencies. RF Attenuation is 0-100%. Power Req.: 105-132 volts, 50/60 Hz AC, 1.7 VA. 7½x8½x5". Wt. 5 lbs.

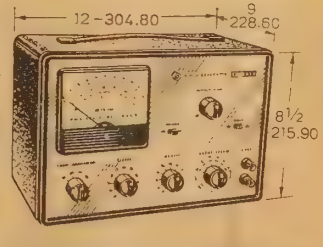
775-0330. 1-3 ..... **Each 139.95**
4-Up ..... **Each 132.95**



SINE/SQUARE WAVE GENERATOR

Model 379W Solid State Generator provides simultaneous sine and square-wave output for testing all types of high-fidelity and sonar equipment. Covers 20 Hz-2 MHz in 5 bands. Sinusoidal output voltage varies 0-7.5 volts, high impedance and 6.5 volts/600-ohm load. Variation in output levels is ±1 db on lowest bands and ±2 db on the highest. Square-wave Output Range: 20 Hz-200 kHz; can be varied 0-10 volts. Power Req.: 105-132 volts; 50/60 Hz AC, 10 VA. 7½x8½x8½". Wt. 9 lbs.

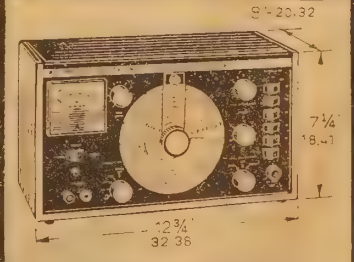
775-0379. 1-3 ..... **Each 139.95**
4-Up ..... **Each 132.95**



DELUXE AUDIO GENERATOR

MODEL 378W. Low-distortion sine wave output 1 Hz to 110 kHz. Detent switches select 1 Hz, 10 Hz, 100 Hz, 1 kHz steps. Low distortion (less than 0.1% from 20 Hz to 20 kHz). Frequency accuracy of ±5%. Detent switches select combinations of 1% resistors and 2% capacitors for precise metered output, controlled by 8-position decade and fine attenuators. Output level sets 0 to 10-V rms (or −70 to +22dB) on 4½" meter. Below 1-V rms output, switch-selected internal 600-ohm load can be disconnected. 8½x12x9". 117 VAC. 16 lbs.

775-0378. 1-3 ..... **Each 149.95**
4-Up ..... **Each 142.45**



RF SIGNAL GENERATOR

MODEL E-200D. Solid state, 100% silicon transistor circuitry and zener-regulated power supply. Six individually shielded step attenuators plus a variable fine output level control with calibrated meter. Full shielding eliminates spurious radiation even at outputs of 1 μV. Accuracy of better than 0.1% possible with internal crystal calibration. Built-in speaker. Frequency range, 54 to 216 MHz on harmonics. 100 KHz to 54 MHz in 5 fundamental bands. Power requirements, 110-130 VAC, 50/60 Hz, 6 watts. Overall size, 12¾×7¼×8" (32.38×18.41×20.32 cm). Wt. 10 lbs. (4.53 kg).

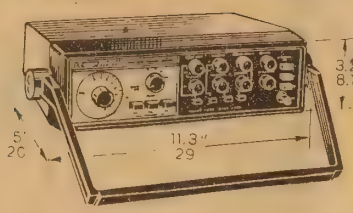
731-0200. 1-3 ..... **Each 275.00**
4-Up ..... **Each 261.25**

17

ASSORTED TEST GEAR

R/C Testers, Generators and HV Test Probes

SWEEP/FUNCTION GENERATOR

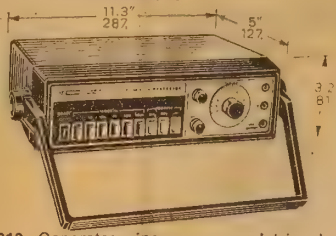


Model 3020. Four generators in one package: sweep, function, pulse and tone-burst. Covers 0.02 Hz to 2 MHz in 7 ranges, each with linear 1000:1 frequency control. Low-distortion, high-accuracy outputs. Duty cycle of any wave-form can be changed over 40:1 range, using the variable symmetry control. Tone-burst output duration may be selected by front panel control, or externally programmed. Internal amplitude modulation capability with front panel controls; output can be modulated by 0-1.5V external source. Three-pushbutton attenuator with vernier control from 0 to −60 dB. Internal linear and log sweeps. Variable DC offset capability (±5V max. into 50 ohms). Freq. Accuracy: ±5% of full scale. Functions: sine, triangle, square, TTL square wave, pulse, tone burst. Output: 10V p-p into 50 ohms. Power Required: 105-130 VAC, 60 Hz, 22W. Size: 3.2x11.3x7.9″ (8.1x29x20 cm). Wt. 3.1 lbs. (1.35 kg).

731-3020. 1-3.....Each 325.00 4-Up.....Each 308.75

NEW!

LOW-DISTORTION FUNCTION GENERATOR

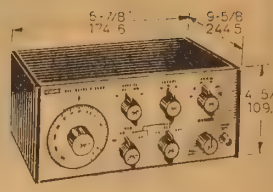


Model 3010. Generates sine, square and triangle waveforms with excellent accuracy. Covers 0.1 Hz to 1 MHz in 6 ranges, each with linear 100:1 frequency control. Pushbutton range/function selection. The stable VCO is varied by a vernier front panel frequency control, or by the VCO external input for sweep-frequency tests; a 0-5.5V ramp produces a 100:1 output frequency change. Variable DC offset (up to ±5V DC into 600 ohms) for engineering applications. Fixed TTL output level for square-wave operation. Variable amplitude output. Sine-wave distortion is less than 1% from 0.1 Hz to 100 kHz. Square-wave output has 99% symmetry. TTL square wave has rise time under 25 ns. Triangle-wave output linearity is 99% at 100 kHz. Frequency Accuracy: 5% of full scale. Output: 10V p-p into 600 ohms. Power Required: 105-130 VAC, 60 Hz, 8 watts. Size: 3.2x11.3x7.9″ (8.1x29x20 cm). Wt. 2.9 lbs. (13 kg).

731-3010. 1-3.....Each 175.00 4-Up.....Each 166.25

NEW!

FUNCTION/ SWEEP GENERATOR



Model 390. An outstanding function generator for a wide variety of applications, from checking the frequency response of an audio amplifier to driving digital circuits. Generates discrete sine and square waves, plus triangle waves, over a broad frequency range of 0.2 Hz to 200 kHz. Tuning dial has 1000:1 ratio. Flick switch to choose linear or log sweep — slow, medium or fast rate. Has a 6-position calibrated attenuator with vernier potentiometer. Front panel BNC output jack. The low-frequency triangle output can be used to drive servo systems. Sine: −0.5 dB, 2 Hz to 200 kHz; distortion less than 1%, 20 Hz to 20 kHz. Triangle: nonlinearity/symmetry less than 2%. Square: rise time less than 200 ns. Attenuator: 0-62 dB in 10 dB steps. Output: 10V p-p into 50 ohms. Power Required: 117 VAC. Size: 4⅝x6⅞x9⅝″ (11x17.5x24.4 cm). Wt. 4.8 lbs. (2.2 kg).

775-0390. 1-3....Each 179.95 4-Up....Each 170.95

NEW!

TRIPLE DC POWER SUPPLYST™



Model WP-708. Fully regulated, high-capacity triple DC power supply gives "lab" type performance; perfect for use with microprocessors. Consists of three separate, completely isolated DC supplies: two 0-20 volt variable at 0-2 amps, and one fixed 5-volt supply at 4 amps max. The variable supplies have adjustable current limiting and dual controls; can be externally connected in series to produce 0-40V output at up to 2 amps. The fixed supply has built-in voltage sensing and current fold-back. Variable supplies have resettable automatic short circuit shutdown. Dual 3-digit LED readouts monitor output voltage or current. LED overload indicators. Serves as a dual DC digital voltmeter, too, with separate inputs for measurement of two independent voltages up to 99.9V. Test leads included. Output Voltage: dual variable outputs, each 0-20 VDC in 4 switched ranges, continuously variable between ranges; 5 VDC (±0.1V) fixed. Load Regulation: variable, 0.075% max.; fixed, 0.05% max. Line Regulation: 0.05% max., 105-130 VAC. Ripple: variable, 5 mV p-p max.; fixed, 10 mV p-p max. Power Req'd: 110/120 or 220/240 VAC, 50/60 Hz. Size: 4x15x9.5″ (10x38x24 cm). Wt. 16½ lbs. (7 kg).

901-5708. 1-3.....Each 333.00 4-Up.....Each 299.95

BRIDGE TYPE CAPACITOR TESTER

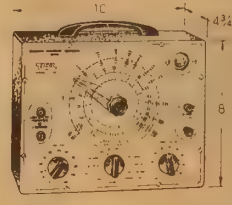


- **Tests for Shorts, Opens and Value**
- **Wien Bridge Circuit**

Model 955W. An extremely versatile and efficient capacitor tester at a very modest price. The practical choice for the budget-minded professional servicemen or hobbyist. Tests capacitors for shorts, opens and capacitance value, in or out of circuit. Sensitive tester will not damage low-voltage electrolytics. Short test: up to 2000 μF, with 1 ohm shunt resistance; maximum test voltage, 6.3 VAC (open leads), decreasing with decreasing impedance. Successful open test can be made on capacitors as low as 15 pF. Capacitance measurement: from 0.1 to 50 μF, in or out of circuit, with Wien Bridge circuitry; shunt resistance as low as 35 ohms. Uses one coaxial lead for all tests; convenient microphone connector coupling. The large, easy-to-read dial assures unmistakable readings, quickly and easily, on the bench or in the field. Operates on 115 VAC. Completely portable cabinet is only 8½x5¾x6″ (21.6x14.6x15.2 cm). Less test leads. Wt. 6 lbs. (2.7 kg).

775-0955. 1-3.....Each 84.95 4-Up.....Each 80.70

R-C BRIDGE CAPACITOR TESTER

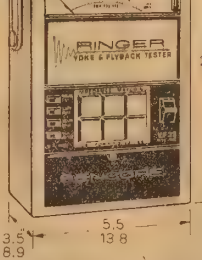


- **Tests Shorts, Leakage and Power Factor**

Model 950W. Combination Resistance-Capacitance Bridge plus R-C-L Comparator reads 0.5 ohm to 500 megohms and 10 pF to 500 μF (in four ranges). Tests are completely accurate and reliable. Variable 0-500 VDC source tests capacitors for both shorts and leakage. This highly versatile unit also yields measurements for the power factors of electrolytic capacitors. The large dial is easy to read for fast, unmistakable identification. You would normally expect to pay a lot more for such a precision quality piece of test equipment. This completely portable tester is ideal for use in professional electrical engineering laboratories and for servicemen in the field, as well as for hobbyists working at home. Has a sturdy, convenient carrying handle — easy to take along wherever testing is needed. The entire tester is completely self-contained; operates on standard 115 VAC. Only 8x10x4¾″ (20.3x25.4x12.1 cm). Shpg. wt. 6 lbs. (2.7 kg).

775-0950. 1-3.....Each 84.95 4-Up.....Each 80.70

RINGER YOKE AND FLYBACK TESTER

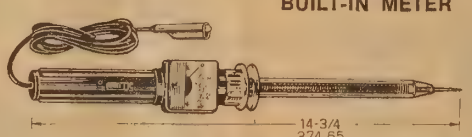


- **Tests Horizontal & Vertical Yokes**
- **Tests Flyback Transformers**
- **Tests Many Coil Types, In or Out-of-Circuit**

Model YF33. Useful tester for the service bench. Tests horizontal and vertical yokes, flyback transformers, horizontal linearity coils, horizontal efficiency coils and numerous general application mid-frequency coils, in or out-of-circuit. "Good-Bad" scale. Accuracy: ±1 cycle at midscale. Sensitivity Control; variable; selects signal level at which counting circuit stops counting cycles. Range: 50% to 10% of pulse amplitude. Calibration: normal cutoff = 25% of pulse amplitude at mid-rotation of control. P-P Drive Scale: range 0-30/0-300 VAC p-p; response 3 'dB at 3 MHz. Power Req'd: 105-130 VAC, 50-60 Hz, 10W. Size: 10x5½x3½″ (25.4x13.8x8.9 cm). Wt. 4¾ lbs. (2.2 kg).

941-0033. 1-3.....Each 195.00 4-Up.....Each 175.00

HIGH-VOLTAGE TEST PROBES WITH BUILT-IN METER



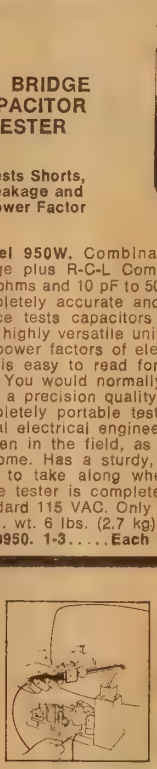
Unique test probes with built-in voltmeter for fast high-voltage measurements. Just ground the probe by attaching alligator clip to chassis, connect the test probe tip to high-voltage source, and read voltage on the built-in meter. No warm-up time required; no batteries needed. Lexan housing. All types are only 14¾″ long. Wt. 8 oz.

Types 4242 and 3157: 20,000 ohms/volt sensitivity, with 50 μA movement, for DC voltage measurement. Accuracy, ±2% of full scale. Type 4242 has multiplier resistance of 720 megohms; type 3157 has 300 megohms.

Type 3200: 2000 ohms/volts sensitivity, with shielded 500 μA movement, for AC voltage measurement. Ideal for testing neon sign transformers, etc. Accuracy, ±3% from 30 to 1000 Hz. Multiplier resistance, 20 megohms. Type 3200 includes Model 3295 carrying case, described at right.

Stock No.	Mfr's Type	Full Scale Volts	EACH		
			1-9	10-49	50-Up
885-0664	4242	42,000 DC	27.50	24.95	22.46
885-0690	3157	15,000 DC	27.50	25.00	23.38
885-0750	3200	10,000 AC	38.02	34.50	31.05

MODEL 3295 CARRYING CASE FOR HIGH-VOLTAGE TEST PROBES



- **Safe Storage for Your Test Probe**
- **Easy to Carry to the Service Site**
- **Designed for Probes with Built-in Meter**
- **Lined with Shock-Absorbing Material**

A quality-built carrying case, especially designed for protection of the high-voltage probes listed at left. Fitted case is constructed of tough, shatterproof thermoplastic. The inside is lined with shock-absorbing material for thorough protection. Wt. 1 lb.

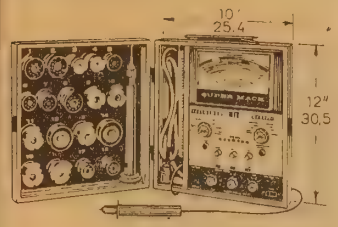
885-0770. 1-3.....Each 8.93
4-Up.....Each 7.14

NOTE: This case is included with Type 3200 Probe.

17

Tube & CRT Testers; Television Test Equipment

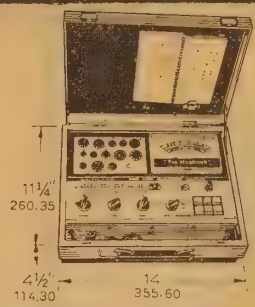
ASSORTED TEST GEAR



"SUPER MACK" AUTOMATIC CRT TESTER/RESTORER

Model CR31A. Completely automatic, patented CRT tests, including "Good-Bad" tracking test, all on one simplified meter. Large 6" D'Arsonval meter can be easily read at a distance. Complete restoring capabilities with 3 automatic and 2 manual restoring levels. Has TV circuit checks including 50KV probe for 2nd anode voltage checks. Equipped with 18 sockets and a full range of filament voltages. Constructed of ABS plastic with aluminum panel and divider. Has removable cover plus storage compartment. Power: 105-130 volts, 50/60 Hz.

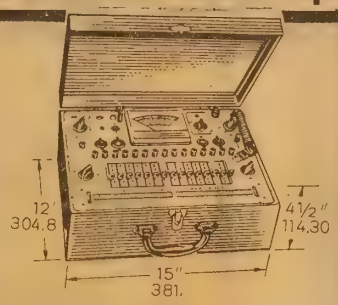
941-0031 .. Ea. 495.00 4-Up .. Ea. 445.50



HYBRIDER TUBE AND TRANSISTOR CHECKER

MODEL TC28. Checks any type of circuit whether its tube, solid state or hybrid. Ideal for amplifier checking. No more idiot lights—even reads heater to cathode leakage on meter. Checks for full emission, 100 megohm grid leak and all internal shorts; also transistor or FET in or out of circuit with the push of a button. Requires no set-up book. Computer logic circuit does the job. Checks over 3000 tubes, foreign and domestic and 20,000 different transistors. Compact and lightweight. 12½ lbs. 4½ x 11¼ x 4".

941-0028. 1-3 Ea. 295.00 4-Up Ea. 265.50



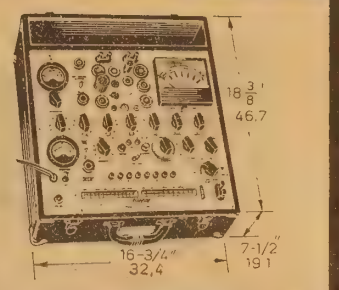
MUTUAL CONDUCTANCE TUBE/TRANSISTOR TESTER

Model 667W. Combines mutual conductance (Gm) with plate conductance (Gp) tests into dynamic and peak emission test for single readout. Transistor gain/leakage tests. Checks nuvistors, novars, compactrons, miniatures, subminiatures, octals, loctals, special purpose tubes, VR's, cold cathode regulators, electron-ray indicators. 4½" D'Arsonval meter with 200 μA sensitivity. Roll chart. 4½x15x12" case. Shpg. wt. 23 lbs.

775- 0667. Ea. 229.95 4-Up Ea. 218.45

Model CRU CRT Adapter. Cathode ray tube test. Shpg. wt. 1 lb.

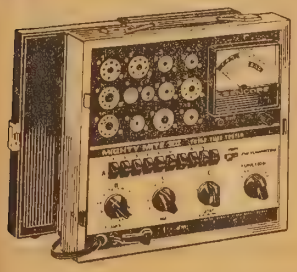
775-1701. 1-3 Ea. 30.00 4-Up Ea. 25.95



INDUSTRIAL AND LABORATORY PORTABLE TUBE TESTER

Model 539C. Has the necessary sockets and switching capabilities to perform tests on Compactrons, Novars, 5 and 7-pin Nuvistors and 10-pin types. GM test circuit tests tubes under actual circuit conditions. Features: 6 micromho ranges. 4 AC signal voltages. metered line and metered grid voltages, dual tube leakage readings. Black portable case has lead compartment and detachable lid. Comes with instruction manual and leads. Power: 105-125 volts, 50-400 Hz, 40 watts. Size: 16¾×18⅜×7½". Wt. 28 lbs.

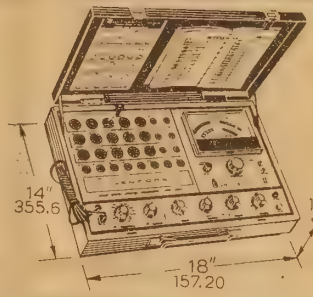
699Q0539 ..... Ea. 995.00



MIGHTY MITE TUBE TESTER

Model TC162. Solid-state tube tester checks just about every tube type, large and small, domestic and foreign, that you could come across in general servicing. Pin elimination switches effectively cut off the inner connected pin, allowing many more tubes to be tested. Elimination switches operate independently for ease of repair. Checks cathode emission at full rated load and grid leakage at 100 megohms. Also, provides highly sensitive stethoscopic shorts test. Case is black vinyl-clad steel with aluminum panel and trim. Power: 105-130 volts, 50-60 Hz, 32 watts. Size: 10x9x4" (25.4x22.8x10.1cm) Wt. 9 lbs. (4kg).

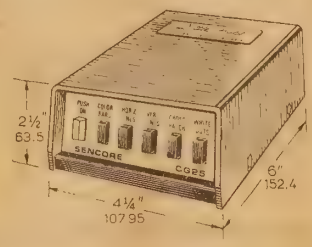
941-0202. 1-3 ..... Each 195.00 4-Up ..... Each 175.50



MUTUAL CONDUCTANCE/ EMISSION TUBE ANALYZER

Model MU150. Here's a tube tester which checks all types, including foreign, for true mutual conductance with an exclusive 5,000 hertz square wave test. Checks tubes under full rated current, a must for power tubes where emission is more important than amplification. Leakage Sensitivity: 100 megohms or .5 microamp. True shorts picked out with stethoscopic test. Has interrupted filament to determine intermittents and temperature sensitive failures. Handsome vinyl-clad steel case with chrome panel and trim. Power: 105-130 volts, 50-60 Hz AC. Size: 18x14x5" (45.7x35.5x12.7cm) Wt. 18 lbs. (8.17kg).

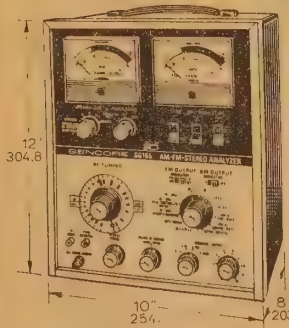
941-0150. 1-3 ..... Each 395.00 4-Up ..... Each 355.50



PORTABLE DIGITAL COLOR BAR GENERATOR

Model CG25. Complete with channel tuning and color adjust level. Positive digital locking insures stable patterns. Channel selection for channels 2 to 6. Automatic shut off for battery power. RCA licensed 10 color bars across entire color spectrum. 14 horizontal bars, digital controlled; 10 vertical bars, digital controlled. 140 small adjustable dots, digital controlled. Case is constructed of unbreakable grey acrylic. Uses one mercury battery, not included. Size: 6x4¼x2½" (15.2x10.7x6.35cm). Wt. 2 lbs. (.908kg).

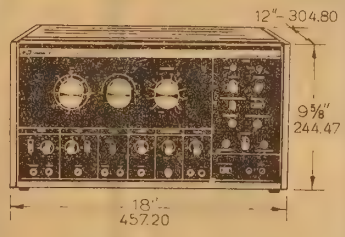
941-0025. 1-3 ..... Each 125.00 4-Up ..... Each 112.50



AM-FM STEREO ANALYZER

Model SG165. RF generator covers full range of AM and FM RF frequencies. IF Generator, crystal controlled 10.7 MHz and 262 KHz for AM servicing. IF Rocker for fixed tuned sets. FM IF Sweep and Marker Generator, crystal controlled markers post injected. Two cables, Stereo Generator, MPX output on both RF and IF, composite output without carrier. Front panel control over 19 KHz pilot, right and left channel signals. Audio Generator, 400 Hz sine and square wave outputs. Power output monitor. 16 lbs.

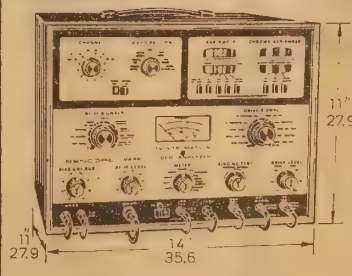
941-0165 Each 695.00 4-Up Each 625.50



TELEVISION ANALYST

Model 1077B. Checks every stage of b & w and color TV receivers from antenna input to grid of CRT. Checks community or master antenna systems; video paging in closed circuit TV systems. Duplicates all signals transmitted by TV stations and within TV receiver. Complete with test pattern slides, all leads and 100 page instruction manual. 105-125 VAC, 50/60 Hz, 100W, 3-wire line cord. **Outputs: IF:** 20 to 48 MHz; 0-70,000 microvolts min. at 75 ohms. **VHF:** Channels 2 to 6: 0 to 12,000 microvolts min. at 75 ohms, Channels 7 to 13: 0 to 6000 microvolts min. at 75 ohms. **UHF:** Channels 14 to 83: 0 to 1000 microvolts min. at 75 ohms. **Video:** Composite signal, 0 to 2.5 volts peak to peak min. at 1000 ohms, pos. or neg. polarity. **Sync:** 0-50 volts, peak to peak, continuously variable polarity. **Output impedance,** 10K ohms @ 50V; 1K ohms @ 10V. 9⅝×18×12". Wt. 26½ lbs.

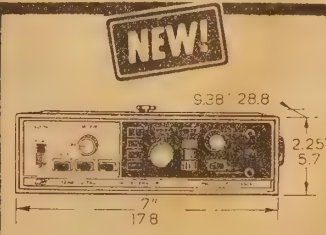
731-1077. 1-3 ... 580.00 4-Up ... 551.00



VIDEO ANALYZER

Model VA48. Provides all signals for video monitors, VTRs, MATV systems and all B&W, color TVs, solid-state and tube operated. All standard bar patterns, NTSC sync, and phase-locked 3.58 MHz color subcarrier. Exclusive patented bar sweep pattern for alignment off the CRT screen or scope. All troubleshooting signals are available from two output jacks, from the antenna to the CRT grid, including VHF and UHF channels, tuner substitute, IF stage, and video stage signals for both tube and solid-state sets. 3.58 MHz color subcarrier oscillator substitute signal. All sync circuit signals. Built-in patented ringer test checks all yokes and flybacks. 3½" meter, 3% accuracy. 105-130 VAC, 50/60Hz. 150W. 11×14×11". Wt. 22½ lbs

941-0048 Ea. ... 975.00 4-Up ... Ea. 877.50



DIGITAL IC COLOR GENERATOR/ANALYST

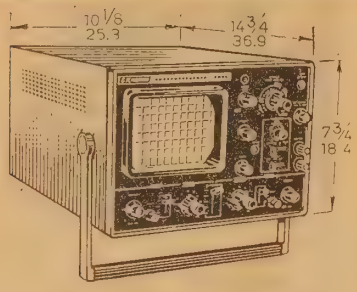
- **Nine Patterns**
- **RF, IF, Video, Sync and Sound Outputs**

Model 1248. Features include: switchable horizontal and vertical sync output, sync level independent of video level control, LSI MOS chip generates all patterns and logic functions, crystal controlled RF and IF outputs and switchable 4.5 MHz sound carrier. Applications: locates dead IF stages, checks operation of mixer, RF and local oscillators, checks stages sequentially, locates color shifts and internal ghosts from RF, mixer, IF or video stages, plus all standard color generator uses. Power: 105-130VAC, 60 Hz. Size: 2.25x7x9.38" (5.7x17.8x28.8cm). Weight 4 lbs. (1.81kg)

731-1248. Ea. 190.00 4-Up Ea. 180.50

17

Dual-Trace Oscilloscopes

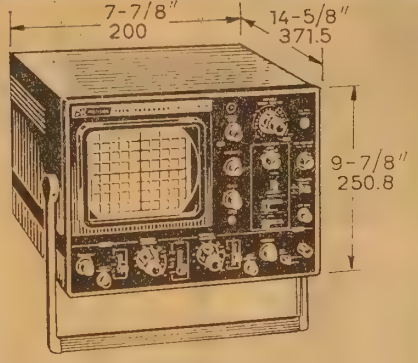


DUAL-TRACE 5-INCH 30 MHz TRIGGERED OSCILLOSCOPE

Model 1474P. A true 30 MHz dual trace 'scope, capable of triggering on signals up to 50 MHz. Flat response with smooth rolloff past 30 MHz. Built-in signal delay line permits view of leading edge of high frequency pulse rise time. Use A-B mode to compare amplifier input/output waveforms and display algebraic difference as a distortion curve. Mode automatically shifts between Chop and Alternate as you change sweep time. High-accuracy 10-position vertical input attenuator. 21-position sweep switch. X-Y Vectorscope capability. Built-in high and low pass filters. Checks most digital logic circuitry, including ECL. Internal 0.5V p-p (±1%) calibration source. Illuminated graticule. Maintains accuracy over 105-130, 205-260VAC range.

VERTICAL AMPLIFIER (Channel A & B): Deflection Factor: 5 mV/cm to 5V/cm, ±3%, in 10 ranges, each with fine adjustment. **Freq. Response:** DC, DC to 30 MHz (−3 dB); AC, 10 Hz to 30 MHz (−3 dB). **Rise Time:** 11.7 nsec or less. **Max. Input Voltage:** 300VDC and AC peak or 600V p-p. **Signal Delay:** fixed, 12 nsec. **SWEEP SYSTEM: Type:** Automatic and triggered (NORM) mode; X-Y operation. **Sweep Time:** 0.2 μsec/cm to 0.5 sec/cm, ±3%, in 20 calibrated steps in 1-2-5 sequence with vernier. **Magnification:** x5 (±5); extends maximum rate to 40 nsec/cm. **HORIZONTAL: Deflection:** 5 mV/cm to 5V/cm, ±5%, in 10 ranges. **Response:** DC-1 MHz (−3 dB). **Z-AXIS** (intensity modulation): 5V sensitivity; TTL compatible; DC-5 MHz. **Power Required:** 117/234VAC, 50/60 Hz. **Size:** (HxWxD) 7⅜x10⅛x14¾" (18.4x25.3x36.9cm). With two PR-36 probes.

731-1474 ..... Each 999.00 4-Up ..... Each 949.00

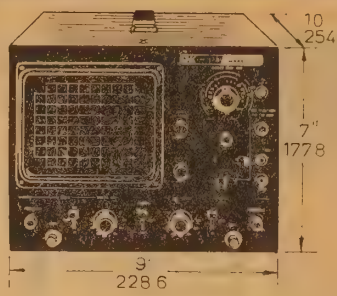


DUAL-TRACE 10 MHz 5" TRIGGERED SWEEP OSCILLOSCOPE

Model 1471BP. Offers automatic selection of Chopped or Alternate mode as you change sweep time. In dual-trace operation, trace is automatically chopped at all sweep times of 1 msec/cm and slower to avoid flickering; at faster speeds, sweep is alternated. Automatic selection of TV line (TV-H) and frame (TV-V) sync. 10 MHz response permits examination of most digital waveforms with automatic triggering on less than 1 cm deflection; smooth roll-off makes it usable well beyond 15 MHz. Has x5 magnification for maximum sweep speed of 0.2 μsec/cm. Front-panel Vectorscope operation with matched vertical amps. Checks most digital logic circuitry including CMOS. Character display using TTL compatible Z-axis intensity modulation.

VERTICAL: Deflection Factor: 10 mV/cm to 20 V/cm, ±5%, in 11 ranges, each with fine adjustment. **Response:** DC, DC to 10 MHz (−3 dB); AC, 10 Hz to 10 MHz (−3 dB). **Rise Time:** 35 nsec or less. **Max. Input:** 300VDC plus AC peak or 600V p-p. **SWEEP SYSTEM: Type:** Automatic and triggered (NORM) mode (X-Y operation). **Sweep Time:** 1 μsec/cm to 0.5 sec/cm, ±3%, in 18 calibrated steps in 1-2-5 sequence with vernier adjustment. **HORIZONTAL: Deflection:** 10 mV/cm to 20V/cm, ±5%, in 11 ranges; fine adjustment. **Response:** DC-1 MHz (−3 dB). **Power Req'd:** 117/234VAC, 50/60 Hz (calibration constant, 105-130V). **Size:** (HxWxD) 7¼x10x14¾" (18.4x25.3x36.9cm). Two PR-31 10:1/direct probes.

731-1471 ..... Each 599.00 4-Up ..... Each 569.05

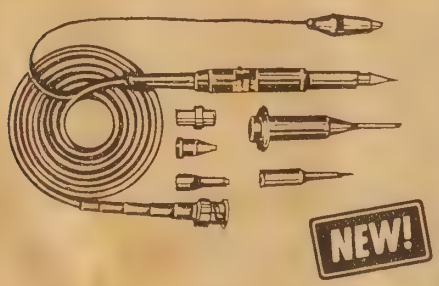


DUAL-TRACE 15 MHz 5-INCH TRIGGERED SWEEP OSCILLOSCOPE

Model 1472CP. Checks most digital logic circuitry, including CMOS. Flat in-band response with smooth rolloff past 15 MHz; usable through 27 MHz. Automatic triggering with as little as 1 cm deflection. 24 nsec rise time permits accurate display of high-speed square wave pulses. Use A-B mode to compare amplifier input/output waveforms and display algebraic differences as a distortion curve. Mode automatically shifts between Chop and Alternate as you change sweep time, for fast set-up. Automatic selection of TV line and frame sync, which can also be used as a low-pass filter. Intensity modulation (Z-axis) input. Individual vertical sensitivity and positioning controls. Front-panel Vectorscope or X-Y operation. 19 calibrated sweep ranges

VERTICAL AMPLIFIER: Deflection Factor: 10 mV/cm to 20V/cm, ±5%, in 11 ranges, each with fine adjustment. **Response:** DC, DC to 15 MHz (−3 dB); AC, 2 Hz to 15 MHz (−3 dB). **Rise Time:** 24 nsec. **SWEEP: Type:** Triggered and auto. **Sweep Time:** 0.5 μsec/cm to 0.5 sec/cm, ±5%, in 19 calibrated steps in 1-2-5 sequence with vernier; x5 magnification extends max. rate to 0.1 μsec/cm; 1.5 sec/cm with uncalibrated vernier. **HORIZONTAL** (input through Channel B vertical input): **Deflection Factor:** 10 mV/cm to 20V/cm, ±5%, in 11 ranges, each with fine adjustment. **Response:** DC to 1 MHz (−3 dB). **Power Required:** 117/234VAC, 50/60 Hz. **Size:** (HxWxD) 7⅜x10⅛x14¾" (18.4x25.3x36.9cm). With two 10:1/direct probes. Shpg. wt. 26 lbs.

731-1472 ..... Each 750.00 4-Up ..... Each 712.50



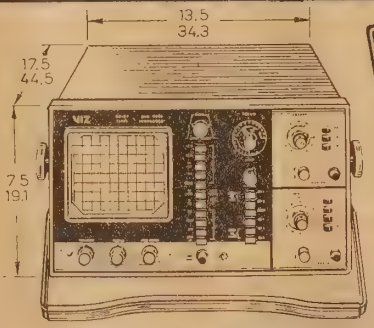
NEW!

WIDEBAND DELUXE INSTRUMENT PROBES

• Color-coded To Save Time, Prevent Errors

MODEL 37. Designed for use with test instruments to 100 MHz. A three-position switch selects 10:1 or direct modes, or a reference position that grounds the tip through a 9 megohm resistor. Available in both gray (PR-37G) and red (PR-37R) colors. Colored probes are useful with a dual trace scope. Instantly identifies which channel a probe is connected to without tracing the cable length to the scope input jacks. Saves time and prevents reading errors. The PR-37G and PR-37R stand out against the many black probes found in use. Accessories included are a spring-loaded retractable tip cover, insulating tip designed for probing dense solid-state circuitry, BNC tip adapter, IC tip, and an insulated compensation capacitor adjustment tool. Comes in a convenient zippered vinyl case. **SPECIFICATIONS. Bandwidth:** DC to 100 MHz, (X10) DC to 10 MHz. (X1). **Risetime:** 3.5ns. **Input Resistance:** 1 megohm with 1 megohm input. **Input Capacity:** 11.4pF with 30pF input. **Compensation Range:** 10 to 60pF. **Maximum Voltage:** 600VDC (including peak AC).

731-0037. PR-37G (gray) ..... Each 38.50
731-0038. PR-37R (red) ..... Each 38.50



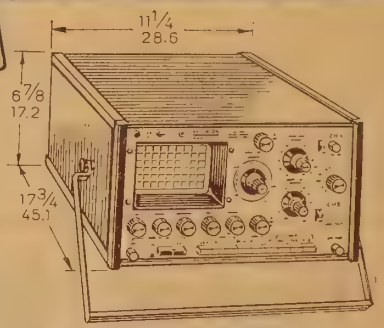
DUAL-TRACE 15 MHz OSCILLOSCOPE

Model WO-555. General purpose scope for use in production testing, QA, field service, digital/linear circuit analysis, teaching, etc. High writing speed and bright trace permit viewing over wide range of lighting conditions. DC to 15 MHz at 10 mV/cm; smooth roll-off for use to 27 MHz. Trigger function delay line of approx. 100 nsec lets user view input waveform leading edges. Simplified trigger hold and level adjustment; LEDs tell at a glance if incoming signal is triggered, and its polarity. Direct selection of display mode permits use of Alternate or Chopped mode at all sweep speeds. Pushbutton switches permit all modes of trigger selection, independent of display. Pre-set TV-V and TV-H plus special TV line selector to display line or frame of TV video frame. x10 sweep magnification. A+B, A-B, and calibrated X-Y capability. 8x10cm (5") display. Combination handle/tilt stand.

VERTICAL: Freq. Response: DC, DC to 15 MHz; AC, 20 Hz to 15 MHz; 3 dB point, usable to 27 MHz. **Sensitivity:** 10 mV/cm to 20V/cm, 1-2-5 sequence, in 11 steps, calibrated to 3%. **Rise Time:** 23 nsec, 10-90%. **Max. Input:** 600VDC plus AC p-p. **HORIZONTAL: Time Base:** normal, 0.5 μsec to 0.5 sec/cm, 1-2-5 sequence, 19-position, calibrated ±2%; variable between steps. TV-H; TV-V; x10 magnifier. **Freq. Response:** DC, DC to 1 MHz; AC, 20 Hz to 1 MHz. **Power Req'd:** 108-130 or 215-250VAC, 50/60 Hz. **Size:** 7.5x13.5x17.5" (19.1x34.3x44.5cm). With two WG-478 probes.

901-4055 ..... Each 750.00 4-Up ..... Each 675.00

NEW!



COMPACT DUAL-TRACE 4" 30 MHz OSCILLOSCOPE

Model 532. Unique combination of high performance, compact size, rugged construction and modest price. Has low-loss distributed delay line for observing the leading edge of fast risetime pulses on triggered sweep; ideal for logic and pulse applications. Full-time x4 expansion; horizontal position control automatically allows moving trace four screen widths at all sweep times, maintaining 4% sweep accuracy. Tests most digital logic circuits, including microprocessors. Sharp trace definition, even for fast-rise low-repetition-rate input signals. Trace width is only .006". Offers 3-screen height deflection at 10 mV sensitivity over entire bandwidth to 30 MHz. Pushbutton trigger mode selection. Stable triggering to 50 MHz. High and low pass trigger filters. Regulated power supplies.

VERTICAL: Ranges: 10 mV/div to 20V/div in 11 calibrated steps; continuously variable control. **Accuracy:** ±4%. **Frequency Response:** DC coupled, DC to 30 MHz (−3 dB); AC coupled, 2 Hz to 30 MHz (−3 dB). **Rise Time:** 11.7 nsec. **Max. Input:** 500VDC plus peak AC (except 300V on .01V range). **Modes:** Channel A or B only, alternate A & B, chopped A & B, add (A+B). **TIME BASE: Sweep Rates:** 2 sec/div to 0.5 msec/div in 24 calibrated steps; continously variable control. **EXTERNAL HORIZONTAL:** Freq. Response: DC to 5 MHz, DC/AC coupled. **Power Required:** 105-125VAC, 50-400 Hz, 35 W. **Size:** (HxWxD) 6⅞x11¼x17¾" (17.2x28.6x45.1cm). Includes two SP-7 10:1 probes.

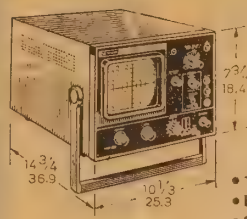
699-0532 ..... Each 995.00 4-Up ..... Each 895.50

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For Fast, Dependable Service, Call Your Nearest Allied Electronics Facility

Oscilloscopes

TRIGGERED SWEEP 5" OSCILLOSCOPE



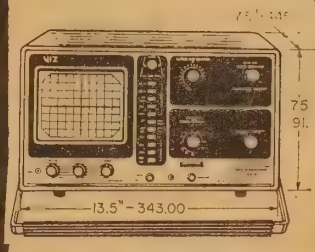
NEW!

- 18 Sweep Range Selections
- Built-in Calibration Signal
- Solid-State
- TTL Compatible Z-Axis Input

Model 1461P. Offers all the advantages of triggered sweep with automatic sync plus very high 10mV/cm sensitivity. Extremely flat vertical amplifier response assures you of no unforeseen dips or peaks in bandwidth. DC amplifier for measurement of AC and DC signal components. Built-in vectorscope. Exclusive sync separator locks sweep for jitter-free TV waveform displays. Ultra-fast writing speeds of up to .2μSEC/cm (with 5x magnification). Vertical freq. response: DC, DC-10MHz (−3dB); AC, 2Hz-10MHz (−3dB). Horizontal freq. response: DC-1 MHz (−3dB). Impedance: Vertical, 1M±5%, 22pF (±3pF); horizontal, 1M 22pF (±3pF). 10:1/direct probe included. 7⅜x10⅓x14¾" (18.4x25.3x36.9cm). 17.3 lbs. (8kg).

731-1461. 1-3 ..... Each 499.00 **4-Up** ..... Each 474.00

5" SOLID-STATE OSCILLOSCOPE



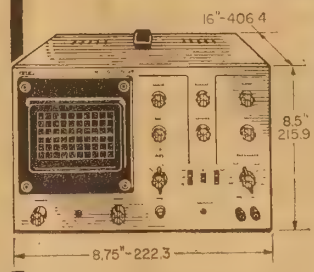
- LED Indicators Show Trigger Polarity
- High Performance

NEW!

WO-527A. A high performance, solid-state, 5" oscilloscope designed with advanced technology. The triggered sweep system provides 19 calibrated time base positions from 0.5 microseconds/cm. to 0.5 seconds/cm. Features AC or DC coupling for the vertical amplifier, and more. Frequency response DC to 15 MHz (−3db). Sensitivity 10mV/cm. to 20V in 11 ranges. Rise time is 23n. sec. Horizontal Osc. frequency DC to 1 MHz. Preset TVV and TVH plus special TV line selector. Input impedance of horizontal amplifier is one Meg shunted for trace expansion by 30 pf: vertical amplifier input impedance is 1 Meg ohm shunted by 30 pf. Probe Included. HxWxL: 7½"x13½"x17½" (19.1x34.3x44.5cm). 21 lbs. (9.5kg).

901-4527. ..... Each 525.00 **4-Up** ..... Each 472.50

10MHz SOLID-STATE OSCILLOSCOPE



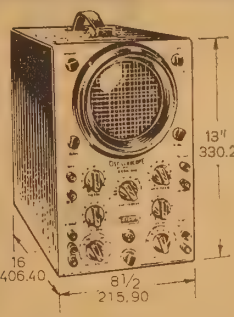
NEW!

- 10MV/cm Sensitivity
- 100% Solid-State
- 5 Inch Display CRT

Model 462W. Performs a wide variety of functions. VERTICAL AMPLIFIER. Sensitivity-10mVcm. Frequency Response (Sinusoidal): direct coupling, flat (+1, −3db) from DC to 10 MHz. Rise time: 35ns. Max. Input Voltage: 400 volts. Input Impedance: 1MΩ shunted by 35 pf. HORIZONTAL AMPLIFIER. Sensitivity 400mV/cm (p-p). Frequency Response: Flat (+1, −3db) 1Hz to 600 KHz. Input Impedance: 1MΩ shunted by 35 pf. LINEAR TIME-BASE GENERATOR (Recurrent). Frequency Range, 10 Hz to 1 MHz (1 us to 100 ms per sweep Internal). Special TV-V and TV-H positions provide 30 Hz to 7875 Hz sweeps respectively. HWD: 8½"x8¾"x16". 23 lbs..

775-0462. ..... Each 249.95 **4-Up** ..... Each 237.45

5" WIDEBAND OSCILLOSCOPE



- 4-Step Attenuator
- Edge-Lit Grating with Dimmer
- Full Screen DC Positioning
- DC to 10 MHz Vertical Response

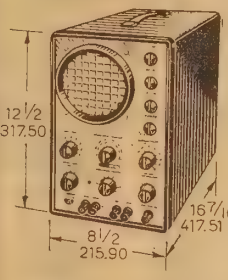
Model 460W. Vertical sensitivity: 25 mV p-p/cm. DC to 10 MHz vertical response, flat to 4.5 MHz. Easily reproduces 3.58 MHz color sync burst. Sweep: 10 Hz to 100 kHz. Plus, minus, internal, external and line-frequency sync. For 105-125 V, 50-60 Hz AC. 13x8½x16". Shpg. wt. 28 lbs.

775-0490 ..... Each 229.95 **4-Up** ..... Each 218.45

PROBES: Shielded For 460 and 427 on this page. Av shpg wt. 8 oz.

Stock No.	Mfr's Type	Description	EACH 1-4	EACH 5-Up
775-2200	PSD	Demodulator	10.95	9.95
775-2100	PD	Direct Probe	9.95	8.95
775-2150	PLC	Low-Capacity	10.95	9.95

DIRECT-COUPLED 5" OSCILLOSCOPE



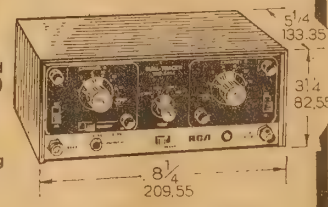
- 3-Stage Push-Pull Amplification
- Zener Diode Calibration
- Frequency-Compensated 4-Position Attenuator
- Fully Automatic Sync

Model 427. Highly sensitive, general-purpose scope has direct coupling throughout the vertical amplifier. Makes DC or p-p AC (or combination) measurements from 10 mV to 500 V. Trace is sharp and clean, free of "blooming", can be expanded to 30 cm vertically and 20 cm horizontally. Instant drift-free positioning. Intensity, focus, astigmatism, DC balance controls and sawtooth sweep output on front panel. Positive or negative sync (internal, external or line-frequency). Vertical response: DC to 500 kHz (+1, −3 dB); sensitivity, 3.5 mV rms/cm (10 mV p-p/cm). Horiz. response: 2 MHz to 450 kHz (+1, −3 dB); sensitivity 0.18 V rms/cm. Sweep ranges: 10-100, 100-1k, 1k-10k, 10k-100 kHz. Imped.: vert., 1 meg/30 pF; horiz., 10 meg/40 pF. 117 VAC. 12½x8½x16⅞". 23 lbs.

775-0426 ..... Each 219.95 **4-Up** ..... Each 208.95

OSCILLOSCOPE ADD ON DUAL-TRACER

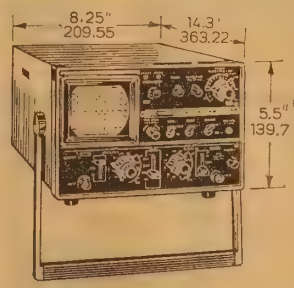
- Provides Two Displays
- Can be Used to Add Additional Trace(s)
- Vertical Position Controls
- AC or DC Coupling



Model WM-541A. Why buy a new scope? Update your triggered or recurrent-sweep scope to DUAL TRACE! The Dual-Tracer provides two displays on a single-trace oscilloscope for simultaneous viewing of two signals. Great for TV, stereo and digital equipment servicing. Makes comparison tests of gain, frequency, response, distortion, phase shift and time delay. And — the WM-541A can also be used to add additional trace(s) to dual-trace scopes! Display modes include Channel A, Channel B, or A + B "chopped" or "alternate". Continuously variable switching rate. Also has AC or DC coupling, vertical position controls for both channels, separate and variable sync level control with polarity reversing switch and two 6-step compensated attenuators (1, 2, 5 ratio). Response is usable to 10 MHz. 10 mV to 50 V direct input Max. Signal Output: 1-V P-P. Size: 5¼x8¼x3¼". For 120 240 V 50 60 Hz.

901-4010 ..... Each 108.00 **4-Up** ..... Each 97.20

PORTABLE 3" DUAL-TRACE OSCILLOSCOPE



Model 1432P. This portable dual-trace scope has more features than many lab scopes. Automatically selects chopped or alternate mode of display. The automatic stability control and front-panel X-Y operation are time saving features. Operates on 117VAC, 234VAC, 12VDC or optional battery pack. 15 MHz bandwidth with smooth roll-off, usable response extends beyond 30 MHz. Frequency Response: vertical, DC—15 MHz (−3dB), AC—10 Hz-15 MHz (−3dB); horizontal, DC to 1 MHz (−3dB), AC—10 Hz to 1 MHz. Vertical Impedance: 1 megohm shunted by 22pF (±3pF). Horizontal Impedance: 1 megohm (±5%), shunted by 22pF (±3pF). Includes 2 slim-body 10:1/direct probes (four accessory tips and carrying pouch for each), AC power cable, DC plug, viewing hood and instruction manual. Size (without handle): 8.26x5.5x4.3" (14x21x36cm). Weight: 18.3 lbs. (8.3kg).

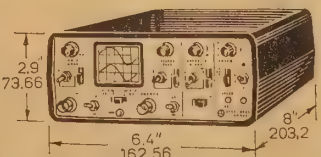
731-1432. 1-3 ..... Ea. 750.00 **4-Up** ..... Ea. 712.50

731-0032. BP-32. Battery pack..... Ea. 50.00

PORTABLE DUAL TRACE MINI-OSCILLOSCOPE

NEW!

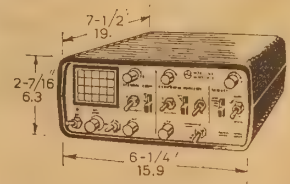
- Dual Trace — 2-Channels
- Chopped or Alternate Modes
- Battery or Line Operation



Model MS-215. The miniscope may be small but it delivers a big performance. Features automatic or line sync modes, battery or line operation, external and internal trigger, and 15-megahertz bandwidth. Time Base: 0.1 μSEC/div to 0.5 SEC/div in 21 calibrated ranges. Input Impedance (vertical and horizontal): 1 megohm in parallel with 50pF. Maximum Input Voltage (vertical and horizontal): 250V (DC and Peak AC). Power consumption is less than 15W. Comes with two shielded input cables with BNC connector and alligator clips, three mini-banana plugs and plug-in transformer (battery charger). Size: 2.9x6.4x8" (73.7x162.6x203.2mm). Weight: 3 lbs. (1.36kg) with batteries. Uses probes and case at right.

667-7100. 1-3 ..... Ea. 435.00 **4-Up** ..... Ea. 391.50

PORTABLE BATTERY-OPERATED MINISCOPE



Model MS-15. Here's a battery-operated oscilloscope that can meet servicemen's requirements for portability and still offer the big performance of a standard scope. Features include: 15 megahertz bandwidth, external and internal trigger, time base — 0.1 microseconds to 0.5 Sec/div — 21 settings, automatic and line sync modes, vertical gain — 0.1 to 50 volts/div — 12 settings. **Specifications.** Input Sensitivity: vertical-10 mV, horizontal-1V, internal trigger-1 Div, external trigger-1V. Viewing area is 1.1"H x 1.35"W. Power Consumption is less than 15 watts. Power Requirements: Line or rechargeable battery operation. Battery life is typically 5 hours. Comes with rechargeable batteries and charger unit. Size: (HxWxD) 2.7x6.4x7.5". Shpg. wt. 3 lbs.

667-7000 ..... Each 318.00 **4-Up** .... Each 272.20

667-0018. Leather case 30.00

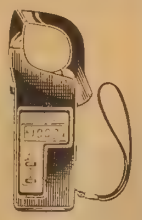
667-0020. 10 to 1 Probe 24.50

See Page 2 for the Allied Electronics Facility Nearest You

Clamp-on Testers, Probe Testers and Monitors

DIGITAL SNAP-AROUND VOLT-OHM-AMMETER

NEW!



Model DSA-1000. Its large 3½ digit liquid crystal display not only indicates what you are reading but also lets you know when you are exceeding the meter's capability. There is no range selection switch because the meter automatically changes range when necessary. The 50,000 hour rated battery life makes replacing batteries a thing of the past. An 8 hour battery recharge cycle allows you to use the meter for up to 50 hours of continuous use. The Data Lock pushbutton gives you the option to freeze the reading, which is helpful under low ambient light conditions or where the meter display is not easily seen. Peak Hold capability will measure voltage and current surges and display the peak values. AC Amps: 0-199.9/200-1000. AC Volts: 0-199.9/200-750. Ohms: 0-199.9/200-1999. Attractively cased in black shock resistant ABS plastic housing. Comes with carrying case, test leads, battery pak, fuse and operating instructions. Size: (HxWxT): 9.6x3.8x1.4" (243.84x96.52x35.56mm). Wt. 2.5 lbs., (1.13kg).
947-1000 ..... **Each 167.50**
947-1010. BC-1 Battery Charger. ..... **Each 7.95**

MEGOHM INSULATION TESTER, OHMMETER, A.C. VOLTMETER

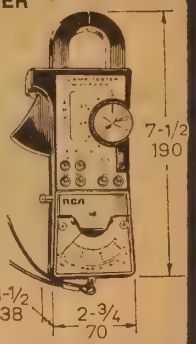
NEW!



Model 520. Specially designed, hand held insulation tester with single megohm range, twin ohm ranges and built-in volt range to double check circuit being checked is deenergized. Used to test insulation resistance and grounds, ohms resistance and continuity in all types of electrical/electronic equipment-transformers, panels, distribution boxes, controls, starters, motors, fans, appliances, relays and circuits. Ranges: 0-1,000 megohms/0-2K/200K 0-600VAC. Pushbutton controls. Quick battery check. Guard terminal. Threaded leads. Self powered. Stabilized high DC test voltage. Wrist strap. Comes complete with fuses, batteries, test leads, carrying case and operating instructions. Size (HxWxT): $8\frac{1}{2}$x$4\frac{5}{16}$x$2\frac{7}{16}$". (215.9x 109.5x61.9mm). Wt. 2 oz. (56.6gm).
947-1100 ..... **Each 169.50**

AC CLAMP TESTER

- **Complete Service Package for Electricians, Appliance Servicers**
- **Rugged Plastic Case**
- **For Safety, Unit Can Be Held and Operated with One Hand**



WV-526B. For appliance, motor, air conditioning and general electrical service. Measures AC current, volts and ohms. Meter scale and panel coded in three colors for fast readings. Insulated clamp for current measurement without direct connection to circuit. Special "stop-lock" switch "freezes" pointer for remote readings. Ohms circuit is protected. Specifications: AC Current (60 Hz)—Ranges: 0 to 0.6", 1.5A", 6A, 15A, 80A, 300A; Accuracy; ±3% of full-scale reading. AC Voltage-Ranges: 0 to 150V, 300V, 600V; Accuracy: ±3% of full scale reading. Sensitivity: 2,200 ohms-per-volt. Battery: One AA 1.5-volt cell. Fuse: 0.1 ampere type 3AG. **Supplied with the WV-526B:** WG-459A line splitter/current transformer, voltage test leads, special high current clip leads, shorting plug, carrying case, with storage compartment, extra fuse. "Using "x10" function of line splitter. Size: $7\frac{1}{2}$x$2\frac{3}{4}$x$1\frac{1}{2}$", (190x70x38 mm). Wt. 9½ oz., (270 gms).
901-4730. 1-3 ..... **Ea. 69.00** **4-Up** ..... **Ea. 62.10**

SNAP 6 SWIVEL CASE SNAP-AROUND VOLT-OHM-AMMETER



Model OHM-525. Pocket size for portability. AC Amps: 5/25/125. AC Volts: 150/300. 50-400 Hz. 25 ohms midscale. Comes complete with Ohmprobe®, test leads, carrying case and operating instructions. Comes in yellow plastic. Size: $7\frac{7}{16}$x$2\frac{15}{16}$x$1\frac{9}{16}$". (188.9x74.61mm). Weighs only 11 oz. (311gm).
947-3000 ..... **Each 48.25**

NEW!

SNAP 8 ROTARY SCALE SNAP-AROUND VOLT-OHM-AMMETER



This pocket-size, portable volt-ohm-ammeter has the built-in features you want, available in two models. Covers full span of daily needs from fractional horsepower and low current equipment to big systems. Well balanced with solid grip contour. **Model SPR-300.** AC Amps: 6/15/40/100/300. AC Volts: 150/300/600. Rated 50-400 Hz. **Model SPR-311.** AC Amps: 1.5/5/15/50/150. AC Volts: 150/300/600. Rated 60 Hz. Both models have 25 ohms midscale. Each comes complete with test leads, Ohmprobe®, carrying case and operating instructions. Size: $8\frac{7}{16}$x$2\frac{11}{16}$x$1\frac{7}{16}$" (214.3x68.26x 36.51mm). Wt. 15 oz. (425.3gm).
947-2000. Model SPR-300 ..... **Each 67.75**
947-2100. Model SPR-311 ..... **Each 71.75**

SNAP 10 ROTARY SCALE SNAP-AROUND VOLT-OHM-AMMETER

NEW!



Model SPR1030. AC Amps: 10/30/100/300/1000. AC Volts: 150/300/750. 25 ohms mid-scale. 50-400 Hz continuous duty. Heavily insulated rectangular jaws for both bus bar and round conductors. Jaw opening 2⅜" (60.3mm). inside jaw area 3⅛" (79.37mm) H x $2\frac{3}{16}$" (55.56mm). Comes complete with Ohmprobe®, test leads, carrying case with handle and operating instructions. $1\frac{13}{16}$" (288.9mm) Hx4¼"(107.95mm) W (add ⅜" (9.52mm) for trigger) x $1\frac{3}{4}$" (44.45mm) T. Wt. 24 oz. (680gm).
947-3100 ..... **Each 99.50**

NEW!

MINIPROBE® SNAP-AROUND VOLT-AMMETER



Engineered for everyday jobs, this small, pocket size volt-ammeter is available in three models. **Model SJ-25:** AC Amps: 25; AC Volts: 250. **Model SJ-50:** AC Amps: 50; AC Volts: 250. **Model SJ-100:** AC Amps: 100; AC Volts: 250. All models rated 50-60 Hz continuous duty. Grip fast ABS plastic housings. Full window view. Takes up to ¾" OD conductor. Comes complete with test leads and operating instructions. Wt. 4½ oz. (127gm).
947-4000. Model SJ-25 ... **Each 24.50**
947-4100. Model SJ-50 ..... **Each 24.50**
947-4200. Model SJ-100 ..... **Each 24.50**

ELECTRICAL PAKS — SNAP-AROUND VOLT-OHM-AMMETER



Model SPR-300A. An electrical pack designed around the Snap 8 Model SPR-300 instrument, above. Contains: one Snap 8 Model SPR-300 instrument; one TL-16 Industrial Test Leads; One Ohmprobe® Fused Battery Probe; One Al Jaw Adaptor Clamp. SPR-300 specifications: AC Amps: 6/15/40/100/300. AC Volts: 150/300/600. 50-400 Hz. 25 ohms midscale. All these accessories are packed in a Model C-12 front fold-away carrying case.
947-2200. SPR-300A Paks,
Each 67.75

NEW!

MASTER ELECTRICAL KIT



Model SM525M. This combination Model OHM-525 Snap Around and Model SP-140 Multi-Testor comes complete with test leads and Ohmprobe® fused battery probe. Also includes E1 energizer and extra test leads TL-15 Huskies. **SP-140 multitester ranges,** DCV: 2.5, 10, 50, 250, 1000. AVC: 10, 50, 250, 500, 1000. DCMA: .05, 25, 250. Ohms: 4K, 40K. db: −20 to +62. Packed in a deluxe master carrying case, with molded insert for instrument, built-in shock absorber pad and roomy lead compartment. See above left for model OHM-525.
947-3200 ..... **Each 93.50**

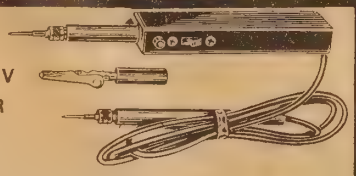
NEW!

VOLTECTOR® AC/DC VOLTAGE TESTER



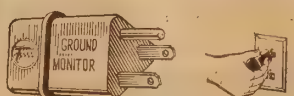
Model V-11. Performs the task of indicating when an AC or DC voltage is present. Makes use of a solenoid indicator to give an approximate voltage indication. Dual neon indicators let you know if the voltage is AC or DC. The housing is designed with a twofold function, first to store the leads when not in use and second, to hold the leads when taking measurements. Features include: firm grip prod handles, prod tip protectors, convenient pocket size and safety orange color for easy identity. Freq. response: 50-60 Hz. AC Volts: 120/240/480/600. DC Volts: 120/240/600. Intermittent duty cycle: 30 seconds max.
947-5000 ..... **Each 14.50**

PROBE IV TESTER



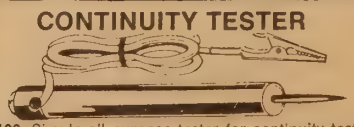
Type 5104. Checks four functions, continuity, voltage, polarity and digital logic. Lightweight, pocket-size, and comes with a self-protective, vinyl carrying pouch. **Voltage Test Position:** Voltage to illuminate LED—full illumination 3 volts to 600 volts maximum; Current Drain on Test Circuit 5 Ma maximum, Input Impedance 2 Megohms. **Continuity Test Position:** Maximum Resistance Between Test Probes — minimum illumination 1000 Ohms to 350 Ohms full illumination; Current Drain on Batteries 7 Ma to 50 Ma. Uses 2 AAA Cell Batteries (not supplied). Probe tips are brass, nickel plated; probe handles are molded Butyrate. Alligator clip adapter is nickel plated steel. 18 Ga., test lead wire, rubber coated, 12,000 Volt, 48" long.
796-5104 ..... **Each 16.55** **12-Up** ..... **Each 14.60**

3-WIRE CIRCUIT MONITOR



TYPE 5012B. Tests 3-wire AC outlets for proper ground. Plug into 3-wire receptacle. Lights indicate: Circuit Okay; Improper Ground; Improper Neutral; Reverse Polarity; Reversed Ground and Power; Power is Off. Shpg. wt. 6 oz.
768R9090 ..... **Each 9.75**

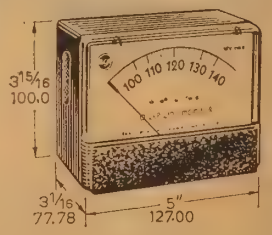
CONTINUITY TESTER



No. 80106. Simple all purpose tester for continuity testing on unpowered circuits, checking fuses, relays, etc. Uses standard pen light batteries. Alligator clip on lead wire, point on probe. Pack 1, wt. .5 lb.
809-0054 ..... **Each 4.46**

NEW!

WV-120B POWER LINE MONITOR

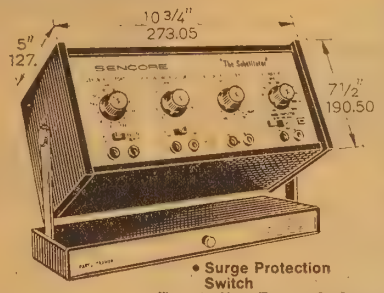


Provides continuous line voltage monitoring without need for interrupting work to check. Can be used with isolation transformer for selecting line voltages for accurate equipment checks. Voltage range: 100-140V. Frequency range: 25-400 Hz. Accuracy: ±2% at 120 volts. Moving vane type meter provides accurate readings. Metal case, $3\frac{15}{16}$x5x$3\frac{1}{16}$" (10x12.7x7.8cm). Shpg. wt. 1½ lbs., (670g).
901R4620. 1-3 ..... **Ea. 29.00** **4-Up** ..... **Ea. 26.10**
WV-503A. As above, 200-240 volts.
901-4703. 1-3 ..... **Ea. 27.00** **4-Up** ..... **Ea. 24.30**

Resistance/Capacitance Boxes and Light Control Devices

DELUXE R-C SUBSTITUTION BOX

Model RC167. Surge protection switch included with warning light to indicate electrolytic overload. Includes 24 overlapping resistors with values from 10 ohms to 5.6 meg-ohms. 1 watt up to 10K, ½ watt over 10K. 10 overlapping capacitors from 100 pF to 0.5 mfd at 600 volts. Electrolytics: 2, 5, 10, 20, 50, 100 and 200 mfd at 450 volts. 500, 1000, and 2000 mfd at 75 volts. Universal selenium and silicon rectifier substitutes, 1 amp forward; 800 PIV. Gimbal mount. 7½×11½×5". Wt. 7 lbs.
941-0167 ..... Each 140.00
4-Up ..... Each 126.00

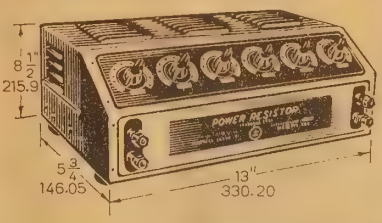


- Surge Protection Switch
- Easy to Use, Economical

RESISTOR DECADE BOX

MODEL 240-C BENCH TYPE. Allows selection of any value from 1 to 999,999 ohms in one-ohm increments. Six dials read Rx1, Rx10, Rx100, Rx1K, Rx10K, Rx100 K for quick setting and quick readout. Dissipates up to 225 W; max VDC 1000, or 660 VAC per decade. 2% tol. except Rx1 decade, 5% Max. current rating range from 5 A for Rx1 to 5 A for Rx 100K. Rugged, long-lasting wirewound power resistors used throughout. Two sets of terminals accept any of the following: banana plugs, spade lugs or plain wire connections. 8½ x 13 x 5¾". Shpg. wt. 13¼ lbs.
753-7840 ..... Each 175.10

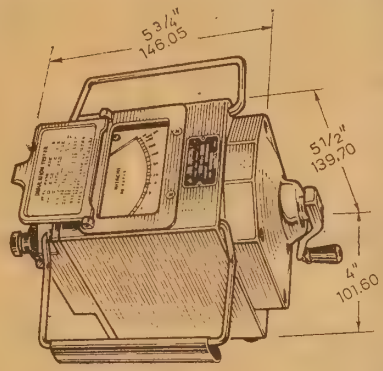
- 1 to 999,999 Ohms in One-Ohm Intervals
- Terminals Accept 3 Kinds of Connections
- Dissipates Up to 225 Watts
- Wirewound Resistors Used Throughout



INSULATION TESTERS

- Models with Voltages to 2000, Megohms to 5,000
- Construction Meets JISC-1301
- For Bench and Field

TYPE E17-E18. Measure insulation resistance accurately and easily. Quickly locates intermittent shorts, bad electrical connections, insulation breakdowns, conductor failures, due to wear, moisture, corrosion, etc. Insulation resistance is hand calibrated directly in megohms. Readout of insulation leakage from 5 ohms to 5,000 megohms. Cross-coil ohm-meter provides accurate readings. Automatic compensation for voltage and current variations. DC voltage outputs from 500 VDC to 2000 VDC. Rigid construction conforms with JISC-1301.
Shpg. wt. 6 lbs.



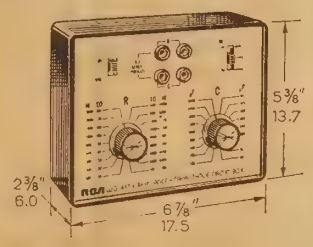
Stock No.	Mfr's Type	Voltage	Resistance	EACH 1-3	EACH 4-Up
808-0506	E-1806	500V	100 Megs	352.00	325.00
808-0512	E-1711	2000V	5,000 Megs	487.50	400.00

R-C SUB BOX

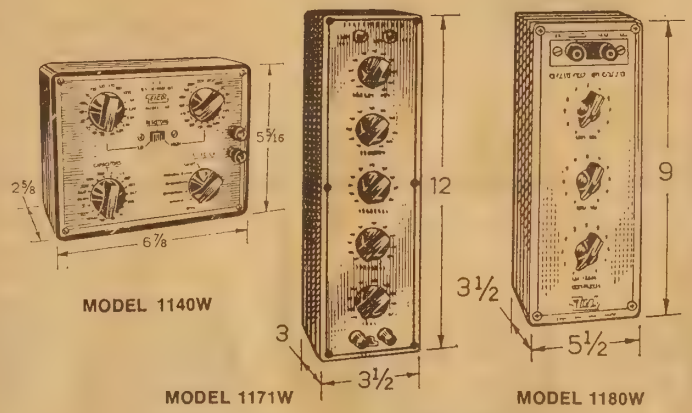
FOR COMPONENT SUBSTITUTION IN SERVICING AND CIRCUIT DESIGN APPLICATIONS

MODEL WC-412A. Provides a selection of standard resistor and capacitor values available separately, in series, or parallel R-C combinations. Unit includes 36 one-watt resistors in standard values from 15 ohms to 10 megs., plus 18-600V capacitors ranging from 100pF to 0.22uF. Both resistors and capacitors have 10% tolerance. Two rotary switches select values. Alligator-clip leads. Use for component substitution in servicing and circuit design applications. Shipping weight 1¾ lbs.

901-2415 .... Ea. 40.00 4-Up .... Ea. 36.00



- Two Rotary Switches Select Values
- 36 Resistors From 15 Ohms to 10 Megs
- 18 Capacitors From 100 pF to .22uF



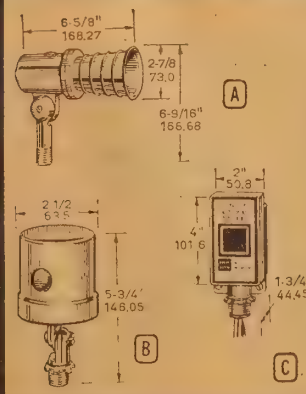
RESISTOR AND CAPACITOR SUB BOXES

MODEL 1140W R-C SUB BOX. 1100W, 1120W with switching facilities for resistance, capacitance or combination in series or parallel. Multiples of 15, 22, 33, 47, 68, 100 ohms, 15 ohms to 10 megs. Capacitance, .0001 to .22 μF, 18 steps. Open, short-circuit positions. No leads. $5^{5}/_{16}$x$6^{7}/_{8}$x$2^{5}/_{16}$" (134.9x174.6x58.73mm). Wt. 3 lbs. (1.36kg).
775-1140. 1-3 ..... Each 39.95 4-Up ..... Each 37.95

MODEL 1171W RESISTANCE DECADE BOX. Resistance: 0-99, 999 ohms in 1-ohm steps with 5 decades. ½% accuracy; 1-watt resistors. Comparator position and binding posts for instant substitution of resistance values into test circuit. Current: 350 mA (0-9 ohms) to 2.5 mA (10k-100k). No leads. 12x3½x3" (304.8x88.9x76.2mm). Wt. 3 lbs. (1.36kg).
775-1171. 1-3 ..... Each 49.95 4-Up ..... Each 47.45

MODEL 1180W CAPACITANCE DECADE BOX. Range: 100 pF to 0.111 μF in 100 pF steps. Rated 350 WVDC continuous, 500 WVDC intermittent. Silvermica capacitors with ±1% accuracy. 7 pF zero capacitance. Ceramic wafer switches; low-loss lucite terminal board; 5-way jack-type binding posts. Less leads. 9x3½x5½" (228.6x8.88x139.7mm). Wt. 3 lbs. (1.36kg).
775-1180. 1-3 ..... Each 39.95 4-Up ..... Each 37.95

LIGHT CONTROL DEVICES



The photoelectric cell measures the amount of natural light present. When natural light falls below prescribed level, cell turns on lights. When required amount of natural light is present again, cell turns off light. There's nothing to set, nothing to adjust.
Type K1611. Photo Control-Par lamp holder. Completely automatic outdoor spot for decorative or flood lighting. External switch leg provides automatic control of a light cluster with a maximum total of 1000 watts. Activation; 1½-2 FC On, 5-6 FC Off. Size: $6^{9}/_{16}$"x$2^{7}/_{8}$x$6^{5}/_{8}$" (16.508x7.302x16.827cm). Shp. wt. 1¼ lbs. (0.567kg).
Type K1121. Photo control with adjustable stem. Adjustable stem permits mounting at almost any angle up to 80°. All models equipped with three, eight-inch color coded leads. Activation: 1-3 FC On, 3-7 FC Off. Size: 5¾x2½". (11.605x6.350cm). Shpg. wt. ½ lb. (0.226kg).
Type K1811. Relay type controls are enclosed in a small, epoxy coated die cast aluminum housing. Activation: 2-2½ footcandles On, 4½-5 footcandles Off. Size: 4x1¾x2". (10.160x4.445x5.080cm). Shpg. wt. ¾ lb. (0.340kg).
Types K2011 and K2311. Compact Heavy Duty Controls. Hermetically sealed in a die cast epoxy coated aluminum housing. **Type K2311** is T rated to carry incandescent loads up to 3000 watts. Activation: 2-2½ footcandles On, 4½-5 footcandles Off. Size 4x1¾x2" (10.160x4.445x5.080cm). Shpg. wt. ¾ lb. (0.340kg).

Stock No.	Mfr's Type	Fig.	Volts AC	Watts	Hz	EACH
818-1005	K1121	B	105-130	1500	60-50	22.00
818-1040	K1611	A	105-130	1000	60-50	24.90
818-1042	K1811	C	120	1800	60	18.15
818-1044	K2011	C	120	1800	60-50	13.45
818-1048	K2311	C	105-130	3000	60-50	22.00

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Tachs, Strobes and Temperature Meters

PRONTO DIGITAL THERMOMETER

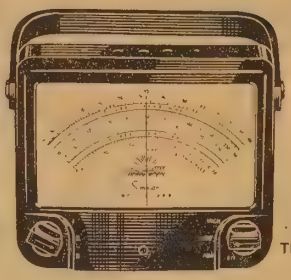
NEW!



- Pocket Size, Lightweight • Metal Case for Ruggedness
- Rechargeable, with Low Battery Indication
- Big ⅓" LED Display That's Easy to Read Anytime
- For Temperature Measurement of Air, Gas, Liquids and Surfaces
- With "Peak Hold" Circuit to Hold the Highest Temperature Sensed

Compact, easy to hold instrument can be carried anywhere. Die-cast aluminum case is impervious to the bumps, bands and vibration encountered in the heaviest industrial usage. The smooth, rounded edge case will not chip, crack or collect dirt. Temperatures are displayed in large 0.33" digital LED's. The bold, bright numbers are easy to read in all lighting conditions. In addition to the low battery indication, the display also includes an overrange/damaged probe indication. Temperature range: 0-999°F. Accuracy at 25°C: 0.5% full span, +1 digit. Damaged probe/overrange is indicated by "O/R" LED. Peak hold circuit: Maintains peak temperature reading. Peak reading change (stability): 1 digit every 3 seconds. Battery life: 5 hours continuous, 1800 intermittent indications. Pronto Pak comes complete with thermometer, recharger, holster case, wrist strap and general purpose probe. Probes are also available for surface, circuit and spot test applications. Case Color: White. Size: 5.5x2.5x1⅜" (140x64x33mm). Wt. 13 oz. (365.5gm).

786-1000. Pronto Pak. 3117011000 ..... **Each 249.00**
786-1100. Surface Probe. 1641317971 ..... **Each 40.00**
786-1200. Circuit Test Probe. 1641417971 ..... **Each 25.00**
786-1300. Spot Probe. 1641517971 ..... **Each 15.00**



ACCURATE TEMPERATURE MEASURING INSTRUMENTS

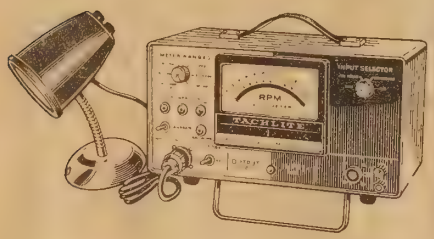
FOR "SIMULTANEOUS" TEMPERATURE READINGS FROM UP TO THREE LOCATIONS!

- Scales Calibrated in Fahrenheit & Centigrade
- Thermistor or Iron-Constantan Thermocouple
- Reads -50° to +1000°F on Big 7" Scale

MODEL 388-3L THERM-O-METER. Takes accurate readings from −50° to +1000°F on 7" scale. Iron-constantan thermocouple. Room temperature compensation. Type 0190 7½-ft. probe. Provision for 3 probes; readings in 3 different areas. Accuracy, ±1½ scale divisions. 6 x 7 15/16 x 2 15/16". With battery.

919-0388. 6 lbs. **1-3** .... **Each 158.02** **4-Up** .... **Each 135.45**
MODEL 0187 SURFACE TEMP. PROBE. Shpg. wt. 1 lb.
919-0187. 1-3 ..... **Each 21.00** **4-Up** ..... **Each 18.00**
MODEL 0190 GENERAL PURPOSE PROBE. Shpg. wt. 1 lb.
919-0190. 1-3 ..... **Each 16.27** **4-Up** ..... **Each 13.95**
MODEL 5262 VINYL CARRYING CASE. For either model.
919-5262. Wt. 1 lb. **1-3** .... **Each 24.78** **4-Up** ... **Each 21.25**

STROBOSCOPE- TACHOMETER

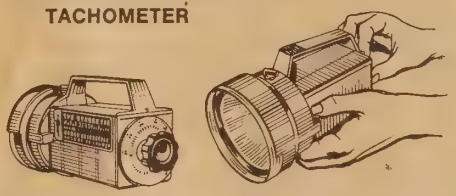


- Features Separate Stroboscope Lamp
- Five Ranges from 100 to 120,000 RPM
- Has 6-In. Taut Band Meter

MODEL 832. A highly accurate strobe with separate connected lamp. Features five speed ranges: 100-1200, 2400, 24,000 and 120,000 rpm. Has 6-in. taut band meter readout, mirror back scale, ½ of 1% of scale accuracy on all ranges. Recorder output, 0.050 V. Field calibration on all scales through divider from line frequency. All solid state. Strobe is Xenon 6500°K color, flashtube No. 10-12. Ranges: 100 to 12,000 (oscillator control on back of lamp or external control); 24,000÷2; 120,000÷10. External control only. Flash duration, 8-10 μsec., .25 watt seconds per flash. Flash control by input accepting any P.I. photo or magnetic pickup, .10 to 15 V signal or contactor. Size, 7¾×13½×7" (19.7×34.3×17.8 cm). Shpg. wt. 24 lbs (10.9 kg).

894-0832 ..... **Each 550.00**
4-Up ..... **Each 475.00**

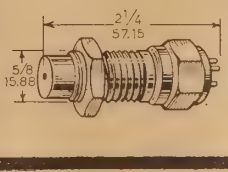
"STROBETTE" STROB-TACHOMETER



MODEL 964. Extremely compact unit. Molded unbreakable plastic case is only 3×3×7" (7.6×7.6×17.8 cm) with 4" (10.1 cm) dia. reflector. Weighs only 27 ounces; can be carried easily in a tool box. Easy to use, with on-off switch and one dial. Xenon white light (6500° K) delivers flash energy of 0.40 watts-second (Jouels). Stroboscope flashes to 200 to 6000 flashes per minute with duration of approximately 10-25 μsec. Speed rate: 200 to 6000 rpm. Field calibration at 3600 fpm. Bean angle: 80°. Accuracy: 3% or better. 100% solid state circuitry. ¼" -20 tripod socket. For 117 V. 50/60 Hz AC. 40 W max.

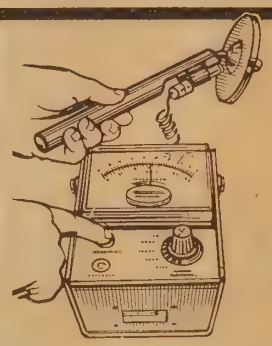
894-0964. Shpg. wt. 4 lbs. (1.8 kg) ..... **Each 146.13**
4-Up ..... **Each 125.00**

MAGNETIC PICKUPS FOR COUNTING



Model 892-120-SXT Magnetic. Generates pulse when ferrous object moves past center probe. Epoxy potted brass case. 120-ohm coil. Output with .005" gap is about 40V p-p at 1000"/second into 100k load. 2¼×⅝" (5.7×0.1058 cm). Includes 10-32 pin. Shpg. wt. 1 lb. (0.454 kg).

894-0892. **Each 29.00**



PORTABLE PHOTO TACHOMETER

Model 891. Reads speed of motors, engines, grinders, drills, SCR controls without contacting shaft. Direct light from probe on a mark on the shaft. Marking materials furnished. Probe has 24" (60.96cm) cable coiled. Four ranges: 0-1000/3000/10,000/30,000 rpm. Accuracy: 1½%. Mirror back scale, taut-band meter. Field calibration. Aluminum case, 7½ x 5½ x 2½" (19.0x14.0x6.3cm). Shpg. wt. 4 lbs. (1.8kg).

894-0891. ..... **Each 186.66**
4-Up ..... **Each 160.00**



3-WIRE CIRCUIT MONITOR



TYPE 5012B. Tests 3-wire AC outlets for proper ground. Plug into 3-wire receptacle. Lights indicate: Circuit Okay; Improper Ground; Improper Neutral; Reverse Polarity; Reversed Ground and Power; Power is Off. 6 oz.

768R9090 ..... **Each 9.75**

SOUND LEVEL METER

- Monitor Noise at Factories, Construction Sites, Near Highways and Airports, Around Industrial Engines
- Easy to Operate • No Complicated Controls to Set Up
- Supplied Complete — Absolutely No Extras to Buy



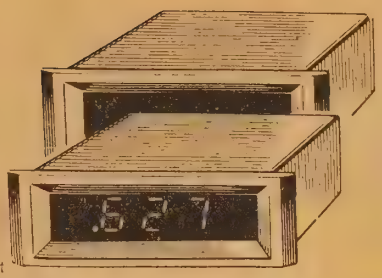
Model WE-130A. Complies with ANSI specification S1.4, 1971, in performance and accuracy as an S3A Special-Purpose Sound-Level Meter. Indicates whether sound levels exceed limits specified by OSHA. No range switches, dials or complex controls—just press the "ON" switch and read the meter. Single color-coded scale, calibrated in audio decibels, shows Safe, Questionable and Unsafe sound levels. Indicates when sound exceeds limits of the Walsh-Healey Act and other applicable restrictions. Range: 70-110dBA; Frequency Response: "A" weighted; Microphone: Ceramic, omnidirectional; Meter Response Time: Slow; Accuracy, 50°F to 90°F, ±1 dB. Battery Complement: Four 1.5 volt "AA" cells (RCA VS334A or equivalent). Size 6⅞x3x1 15/16" (17.45x7.62x4.92cm). Complete with leatherette carrying case with belt loop and shoulder strap, lanyard, batteries and operating manual.

901-4640 ..... **Each 99.00** **4-Up** ..... **Each 89.00**

Digital Panel Meters, Chart Recorders

ASSORTED TEST GEAR

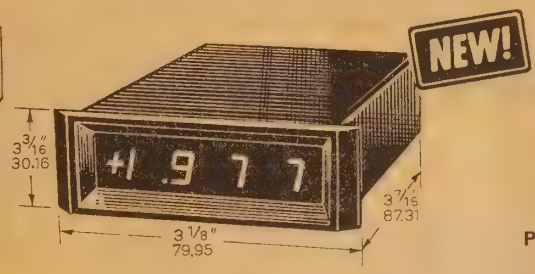
PM-349
THRIFTMETER
3½-DIGIT DC
PANEL METERS



Low-cost 3½-digit panel meters (3 digits plus 100% over-range) offer 0.05% accuracy. Low power requirement; input voltage protection; automatic polarity; overload indication; display blanking. Small size, only 1" H x 2.5"W x 3.25" D. Unichip MOS/LSI construction. Large LED display with programmable decimal; no zero adjustment required. **Ranges:** 0.2V, 0 to ±0.1999 VDC; 2V, 0 to ±1.999 VDC; 20V, 0 to ±19.99 VDC; 200V, 0 to ±199.9 VDC; 1000V, 0 to ±999 VDC. **Accuracy:** ±(0.05% reading +0.05% full scale). +23°C. **Display Height:** 0.3". **Oper. Temp.:** 10-50°C. **Power Req'd:** +4.5 to 5.5 VDC at 200 mA nom. *Edge connector for PM-349.

Stock No.	Mfr's Type	DC Volts	EACH 1-4	5-9	10-Up
667-8000	39-349-0	0.2	52.00	49.40	46.80
667-8010	39-349-1	2	52.00	49.40	46.80
667-8020	39-349-2	20	52.00	49.40	46.80
667-8030	39-349-3	200	52.00	49.40	46.80
667-8040	39-349-4	1000	52.00	49.40	46.80
667-0001	39-195*	....	Each	.....	3.00

NEW!



PM-3 THREE-DIGIT DC PANEL METERS

For measuring DC voltages with accuracy of ±0.1% of full scale. External 5V power supply is required. Decimal location can be changed up to 3 positions. Automatic zeroing to eliminate zero drift. Range can be changed by adding or removing 1 to 3 resistors. Contains potentiometer for dynamic scale expansion, for readings of transducer signals in units other than volts. **Ranges:** 1V, 0 to 0.999 VDC; 10V, 0 to 9.99 VDC; 100V, 0 to 99.9 VDC; 1000V, 0 to 999 VDC. **Accuracy:** ±0.1%. **Speed:** 2 readings/sec. **Oper. Temp.:** 0° to 60°C. **Power:** 5 VDC (±5%) at 160 mA, 0.5W. **Display:** LED., red, 0.31" H. *Edge connector. Wt. 4 oz.

Stock No.	Mfr's Type	DC Volts	EACH 1-4	5-9	10-Up
667-2000	39-250-1	1	93.00	88.35	83.70
667-2002	39-250-2	10	93.00	88.35	83.70
667-2004	39-250-3	100	93.00	88.35	83.70
667-2006	39-250-4	1000	93.00	88.35	83.70
667-0001	39-195*	....	Each	.....	3.00

DIGITAL PANEL METERS MEASURE DC VOLTAGE

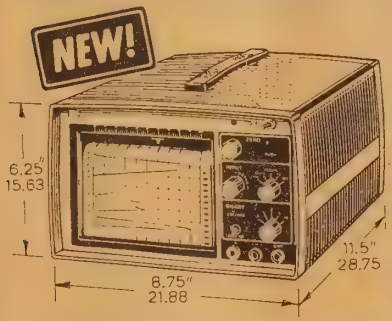
PM-3.5 THREE AND ONE-HALF DIGIT DC PANEL METERS

Fixed range 3½-digit instrument with automatic polarity Modification from one range to another is accomplished by the substitution, addition or deletion of one to three resistors. Active filter input provides high normal-mode rejection. Matched amplifiers eliminate zero drift. Calibration is achieved by adjustment of one potentiometer, accessible at the rear of the instrument. An external volt power supply is required. **Ranges:** 2V, 0 to ±1.999 VDC; 20V, 0 to ±19.99 VDC; 200V, 0 to ±199.9 VDC; 1200V, 0 to ±1200 VDC. **Accuracy:** ±(0.05% of reading +0.05% full scale). **Speed:** 3 readings/second, nominal. **Power Required:** 5V ±5% at 200 mA. **Control:** Scale factor, screwdriver adjust at rear, 5% nom. **Display:** LED, 0.3" high. †Edge connector for PM-3.5

Stock No.	Mfr's Type	DC Volts	EACH 1-4	5-9	10-Up
667-5000	39-291-1	2	109.00	103.55	98.10
667-5002	39-291-2	20	109.00	103.55	98.10
667-5004	39-291-3	200	109.00	103.55	98.10
667-5006	39-291-4	1200	109.00	103.55	98.10
667-0002	39-282†	....	Each	.....	5.25

MODEL 142 RECORDER

NEW!



Small, portable UL listed AC/DC powered recorder offers multiple span input ranges from 1 mV through 10 V, with variable attenuator to 100 VDC. Chart drive has 10 speeds from 0.5 cm/hour to 10 cm/minute. Uses roll-type chart paper 30 meters long. Unique servo drive system practically eliminates deadband; electronic servo "shut down" for off-scale protection. Powered by 12-volt rechargeable batteries. (115/220 VAC charger included). 100% zero suppression; 100% full scale zero. **Chart Width:** 100mm. **Accuracy:** overall, less than ±0.5%. **Response Time:** less than 0.5 second full scale. **Full Scale Span:** 1, 10 or 100 mV; 1 or 10 V. **Size:** (HxWxD) 6.25x8.75x11.5". Includes one disposable fiber-tip pen, one roll chart paper, set of rechargeable batteries. Wt. 15 lbs.

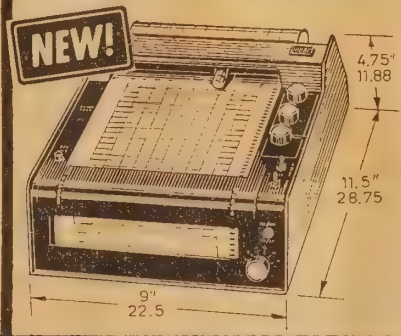
820-1000 ..... **Each 495.00**

Chart Paper. 30 meters per roll. 6 rolls.

820-0100. 6 rolls per pkg. **Each Pkg. 21.00**

MODEL 155 RECORDER

NEW!



Compact strip chart recorder offers multiple chart speeds from 1 cm/hour to 40 cm/minute; multiple spans from 1 mV to 10 V DC input. Compact 125mm chart width has ±100% full scale suppression to allow up to 2 times the input on any range. Powered by 115 or 230 VAC, 50/60 Hz, switch selected. Less than 1% limit of error. Uses disposable long-life fiber-tip pen. **Full Scale Span** (switch selected): 1, 10, 100, 1000 mV with uncalibrated variable 10:1 attenuator. **Chart Speeds:** 12, switch selectable. 1, 2, 4, 10, 20, 40 cm/min. and cm/hr. **Accuracy:** overall limit of error less than ±1%. **Response Time:** greater than 50 cm/second, with source impedance less than 20KΩ. **Size:** 4.75x9x11". Includes one pen, one roll of chart paper. Wt. 10 lbs.

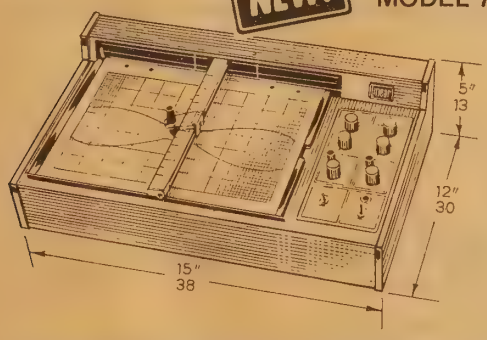
820-2000 ..... **Each 495.00**

Chart Paper. 30 meters per roll, 6 rolls.

820-0200. 6 rolls per pkg. **Each Pkg. 21.00**

NEW!

MODEL 701 DUAL-ORDINATE PLOTTING RECORDER



Dual-ordinate recorder plots variables on the X and Y axis simultaneously, through pulse modulated servo system. Standard 8½x11" (DIN A-4) graph sheets are held in position by four circular patches of pressure-sensitive adhesive located at the four corners of the writing table (platen) surface. Alignment guides are permanently marked to position the paper for each test. May be operated in vertical or horizontal position. Terminal connections are provided on the rear panel for remote operation of the pen lift. Standard receptacles for input connections to the X and Y amplifiers. Main chassis is aluminum/plastic; enclosure is corrosion/shock resistant plastic. Includes 100 sheets of chart paper.

820-3000 ..... **Each 695.00**

Chart Paper. Package of 400 sheets.

820-0300 ..... **Per Package 22.00**

Disposable Pens. For 142, 155, 701. Black. Pack of 5.

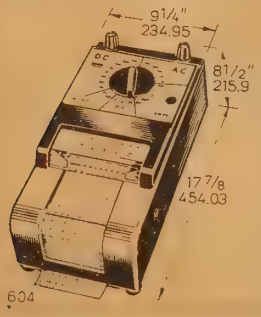
820-0400 ..... **Pack/5 10.00**

SPECIFICATIONS

Input Range: 5 mV/cm (with 10:1 attenuator) on X and Y scale. **Input Type:** Single ended (floating). **Input Impedance:** 2.5 megohms (fixed). **Zero Adjust:** ±1 full scale. **Accuracy:** ±0.5%. **Linearity:** ±0.25%. **Deadband:** 0.1%. **Overshoot:** 2%. **Response Time:** 0.5 second full scale. **Operating Temperature:** 35° to 115°F (2° to 46°C). **Pen Style:** Disposable felt tip. **Paper Size:** 8½x11" or DIN A-4 size. **Plot Size:** 7x10" (17.8x25.4 cm). **Power Required:** 120 or 240 VAC (±10%), 50-400 Hz, single phase. **Size:** (HxWxD) 5x15x12" (13x38x30 cm). Shpg. wt. 20½ lbs. (9.3 kg).

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RECORDING MULTIMETERS



MODEL 604. Features 22 switch selectable ranges, with inkless recording of range and value on pressure-sensitive paper. Chart speeds of 1, 3 or 12 inches per hour. Includes test leads and two rolls of chart paper. **Recording Accuracy:** ±2.5%. **Ranges:** DC: 0-0.1, 0.5, 2.5, 10, 25, 100, 250, 500 V; 0-50, 250 μA; 0-1, 5, 25 mA; 0-0.1, 0.25, 1 amp. AC: 0-10, 25, 100, 250, 500 V; 0-0.2 mA. **Power Required:** 115 VAC. **Size:** 8½x9¼x17⅞". Wt. 6 lbs.

919U0615 ..... **Each 460.83**

4-Up ..... **Each 395.00**

Chart Paper. Box of 10 rolls. Shpg. wt. 2 lbs.

919-2612 ... **Each 40.30** **4-Up** ..... **Each 32.30**

MODEL 605 MULTICORDER. Inkless recording on pressure-sensitive paper. **Chart Speeds:** 1, 3 or 12 inches/hour. **Recording Accuracy:** ±2.5%. **Sensitivity:** 666 ohms/volt. **Ranges:** DC: 0-12, 30, 60 mV; 0-3, 15, 60, 300, 600 V; 0-1.5, 3, 6, 30 mA; 0-0.15, 1.2, 6 amps. AC: 0-6, 30-, 150, 300, 600 V; 0-3, 15, 60. 300 mA; 0-1.2, 6 amps. **Power Required:** 115 VAC. **Size:** 9¾x4¾x4". Includes test leads and two rolls of chart paper. Wt. 5½ lbs.

919-0620 ..... **Each 460.83** **4-Up** ..... **Each 395.00**

Type 02614 Chart Paper. 2.3"x50' Box of 10 rolls. Shpg. wt. 2 lbs

919-2614 ..... **Each 40.30** **4-Up** ..... **Each 32.30**

Type 02461 AC Clip-On Current Transformer. 30-120-600 amps. Turn ratio of 2000:1. Shpg. wt. 2 lbs.

919-2461 ..... **Each 84.50** **4-Up** ..... **Each 67.70**

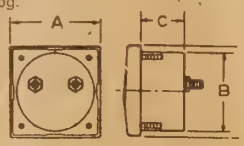
Panel Meters and Pyrometers



"WIDE-VUE" PANEL METERS

A wide range of "wide-vue" panel meters for industrial applications. "Wide-vue" panel meters have specially formulated plastic covers for wide-angle readability and maximum protection. Especially useful for applications which require instant and accurate readings. Those models which have 3½" meters have scales which are ½" longer than conventional types. All meters have "self-shielded" movement. AC milliammeters and ammeters are calibrated for use on 25 Hz through 800 Hz. All other AC meters have iron-vane movements.

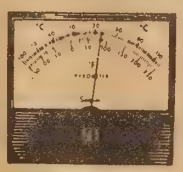
Terminals are ¼-28 studs with hex nuts. Accuracy: ±2% of full scale, except Rectifier Types with an accuracy of ±3% of full scale. For exact meter dimensions of Wide-vue panel meters on this page, see "Meter Dimensions." Av. shpg. wt. 1 lb.



METER DIMENSIONS

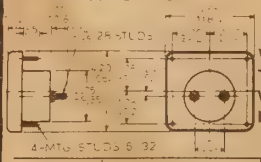
Mfr's Type	A		B		C	
	Inch	mm	Inch	mm	Inch	mm
1227	2 47	62.73	2.17	55.11	1.06	26.92
1247	2.47	62.73	2.17	55.11	1.06	26.92
1257	2.47	62.73	2.17	55.11	1.06	26.92
1327	3.25	82.55	2.73	69.34	1.08	27.43
1329	4.68	118.87	2.75	69.85	1.08	27.43
1347	3.25	82.55	2.73	69.34	1.08	27.43
1349	4.68	118.87	2.75	69.85	1.08	27.43
1357	3.25	82.55	2.73	69.34	1.08	27.43
1359	4.68	118.87	2.75	69.85	1.08	27.43
1379	4.68	118.87	2.75	69.85	1.08	27.43

MODEL 29 THERMOELECTRIC PYROMETER



- **Easy-to-Read Scale, Precise Tracking**
- **Centigrade and Fahrenheit Graduations**

Precision-engineered for a lifetime of accurate, dependable performance. Easy-to-read 4½" pyrometer features high sensitivity, ruggedness and precise tracking. Compensates for ambient temperature changes and includes copper circuit compensation. Scales are marked with both Fahrenheit and Centigrade graduations. Thermocouples listed in table below are iron-constantan and calibrated to exactly 10 ohms, ±1% per table. Shipping weight is 2 pounds.



WHEN A MERCURY THERMOMETER WON'T WORK . . . DO IT WITH A THERMOELECTRIC PYROMETER!!

Stock No.	Range °F	Range °C	Ext. Ohms	Sens. in mA	EACH 1-9	EACH 10-24	EACH 25-Up
918-0527	0-500	-20 to +260	10	.35	58.50	52.65	45.28
918-0528	0-800	-20 to +425°C	10	.30	58.50	52.65	45.28

THERMOCOUPLES

GC indicates Glass Cloth.

Stock No.	Resis. (ohms)	Over-braid	Lgth. (in.)	Gauge	EACH 1-9	EACH 10-24	EACH 25-Up
918-4696	10	GC	137	24	11.75	8.80	7.18
918-4697	10	GC	34	30	11.52	8.00	6.25

WIDE-"VU" METER

Wide-Vue meter for broadcast and communications use. Meets all electrical and ballistic specifications of Bell Laboratories and ANSI. Shows volume level in VU. Type A scale stresses level in VU for monitoring wire lines. Dimensions: See meter dimension table above. Av. shpg. wt. 1 lb.

Stock No.	Mfr's Type	"A" Scale	EACH 1-9	EACH 10-24	EACH 25-Up
918-3596	1347	3½"	52.33	47.10	40.51

AC VOLTMETERS (See Left for dimensions)

Range	Stock No.	Model 1257 — 2½" EACH 1-9	EACH 10-24	EACH 25-Up	Stock No.	Model 1357 — 3½" EACH 1-9	EACH 10-24	EACH 25-Up	Stock No.	Model 1359 — 4½" EACH 1-9	EACH 10-24	EACH 25-Up
0-50	.....	.....	.....	.....	.....	.....	.....	.....	918-3881	34.67	31.20	27.35
0-150	918-2983	31.17	28.05	24.12	918-3783	33.17	29.85	25.67	918-3883	35.33	31.80	27.90
0-300	.....	.....	.....	.....	.....	.....	.....	.....	918-3886	35.33	31.80	27.90

AC AMMETERS (See Left for dimensions)

0-5	.....	.....	.....	.....	918-3704	29.67	26.70	22.96	918-3804	31.50	28.35	24.38
0-10	918-2905	28.33	25.50	21.93	.....	.....	.....	.....	918-3805	31.50	28.35	24.38
0-25	918-2907	29.17	26.25	22.58	918-3707	30.83	27.75	23.87	918-3807	32.67	29.40	25.28
0-50	918-2909	29.17	26.25	22.58	.....	.....	.....	.....	918-3809	32.67	29.40	25.28

DC VOLTMETERS

15-300V units 1000Ω/V.

Range	Stock No.	Model 1227 — 2½" EACH 1-9	EACH 10-24	EACH 25-Up	Stock No.	Model 1327 — 3½" EACH 1-9	EACH 10-24	EACH 25-Up	Stock No.	Model 1329 — 4½" EACH 1-9	EACH 10-24	EACH 25-Up
0-15	.....	.....	.....	.....	918-3278	33.83	30.45	26.19	.....	.....	.....	.....
0-25	918-2579	32.67	29.40	25.28	.....	.....	.....	.....	.....	.....	.....	.....
0-50	918-2581	32.67	29.40	25.28	.....	.....	.....	.....	.....	.....	.....	.....
0-300	.....	.....	.....	.....	.....	.....	.....	.....	918-3486	36.83	33.15	28.51

DC MICROAMMETERS

0-50	.....	.....	.....	.....	918-3229	40.17	36.15	31.10	.....	.....	.....	.....
0-100	.....	.....	.....	.....	.....	.....	.....	.....	918-3430	40.83	36.75	31.61
0-500	.....	.....	.....	.....	918-3232	33.17	29.85	25.67	.....	.....	.....	.....

DC MILLIAMMETERS

0-1	.....	.....	.....	.....	918-3250	31.67	28.50	24.51	918-3450	33.83	30.45	26.19

DC AMMETERS

1227, 1327, 1329 are self-contained thru 50A. *50mV and require external shunt.

0-10	918-2505	31.33	28.20	24.25	.....	.....	.....	.....	918-3405	35.33	31.80	27.35
0-30	.....	.....	.....	.....	918-3208	32.67	29.40	25.28	918-3408	35.33	31.80	27.35
0-50	918-2509	31.33	28.20	24.25	.....	.....	.....	.....	918-3409	35.33	31.80	27.35
*0-100	.....	.....	.....	.....	.....	.....	.....	.....	918-3411	35.33	31.80	27.35
*0-200	.....	.....	.....	.....	.....	.....	.....	.....	918-3413	35.33	31.80	27.35

MODEL 1379 WIDE-VUE WATTMETERS

Dynameter-type meters for measuring DC and single-phase power with frequencies to 250 Hz. Use with power factors below 50%. Calibrated for either magnetic or non-magnetic panels and for frequency range from 25 to 125 Hz. Meter accuracy ±2% of full scale reading.

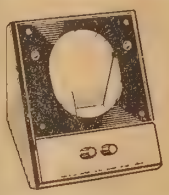
Stock No.	Range Watts	Max. Amps	Max. Volts	EACH 1-9	EACH 10-24	EACH 25-Up
918-3960	0-1500	10.0	300	86.16	77.55	66.69
918-3961	0-3000	20.0	300	86.16	77.55	66.69

PORTABLE SHUNTS FOR DC AMMETERS

50 mV. 0.65 ohm. With 5-ft. leads.

Amps	Stock No.	Type	1-9 Ea.	10-24, Ea.	25-Up, Ea.
100	918-6713	6713	18.33	16.50	14.19
200	918-6715	6715	18.33	16.50	14.19

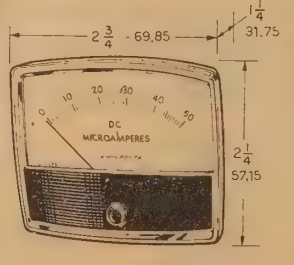
MODEL 2100 PORTABLE INSTRUMENT KIT



Complete kit for mounting any 4½" (114.3mm) panel meter, to meet specific needs. Rear hole permits mounting a fuse holder as required; nylon plug covers hole when not in use. Kit includes case, panel assembly, legend overlay, two binding posts, nylon plug, hardware, complete assembly instructions. See the complete meter section in this catalog for a complete selection of 4½" (114.3mm) meters to choose from. Wt. 1 lb. (.454kg).

919-7949. 1-3 ..... **Each 11.83** **4-Up** ..... **Each 10.65**

PRECISION PANEL METERS



- **D'Arsonval Movement • Linear Dial Scales**
- **Perfect for Hobbyist, Experimenters & Builders**

These panel meters are the most popular types used by builders, experimenters and hobbyists. Long lasting, dependable construction. Clear plastic wrap-around cover for wide-angle viewing. D'Arsonval movement with jeweled bearing. Linear dial scale. Available in two current ranges. Also available in VU type. Requires 1⅞" mounting hole. Size: 2¾×2¼×1¼".

910-4555. Type 22-051. 0-50 μA. DC ..... **Each 7.95**
910-4560. Type 22-052. 0-1 mA. DC ..... **Each 6.95**
910-4565. Type 22-053. VU Meter. -20 to +3, 20-20K. +1dB "O" VU 0.8V rms. Internal rectifier. 4000 ohms ..... **Each 7.95**
910-4566. Type 22-054. 0-15 VDC ..... **Each 7.95**

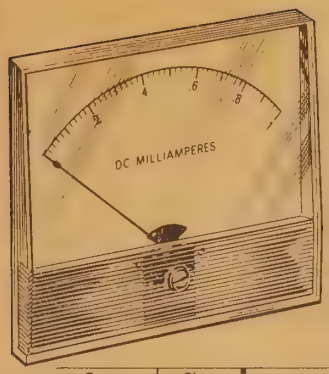
Call Allied for Price and Delivery of Items Not Located in This Guide

Allied® Quality Panel Meters

PANEL METERS

Allied® 2½", 3½" & 4½" Panel Meters

Quality-made panel meters featuring full scale accuracy of 2%, shielded meter movements, easy-to-read knife-edge pointer, spring-back jewel design. All have ¼-28x.43" terminals. Mounting studs on 4½" models are 6-32x.53"; 2½" and 3½" models, 4-40x.53". *Indicates rectifier type. Av. shpg. wt. 1 lb.



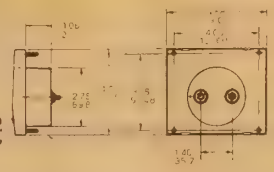


BEZEL MOUNT KIT

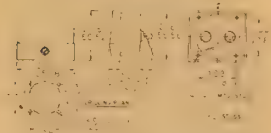
For 3½" and 4½" meters only. Pkg. includes bezel, bracket and screws for quick installation.

701-0470. For 4½" Meters ..... Each 10.42
701-0468. For 3½" Meters ..... Each 6.47

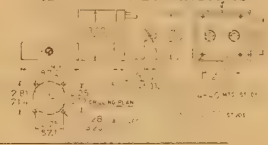
4½" METER DIMENSIONS



2½" METER DIMENSIONS



3½" METER DIMENSIONS



DC MICROAMMETERS

Range	Ohms	2½ METERS Stock No.	EACH 1-9	10-24	25-49	50-Up	3½ METERS Stock No.	EACH 1-9	10-24	25-49	50-Up	Stock No.	4½ METERS EACH 1-9	10-24	25-49	50-Up
25-0-25	3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	701-0309	21.84	19.65	17.69	15.92
0-50	3000	701-0011	19.95	18.09	16.28	14.65	701-0234	19.95	18.48	16.63	14.97	701-0311	21.14	19.02	17.12	15.50
50-0-50	2000	701-0012	18.38	16.54	14.88	13.39	701-0238	18.78	16.90	15.21	13.69	701-0313	18.26	16.60	15.00	13.95
0-100	2000	701-0013	17.68	15.91	14.32	12.88	701-0242	18.78	16.90	15.21	13.69	701-0315	18.62	16.75	15.08	13.75
100-0-100	600	701-0014	16.76	15.08	13.57	12.50	701-0245	17.12	15.40	13.90	12.90	701-0317	17.65	16.05	14.52	13.50
0-200	600	701-0015	16.06	14.45	13.00	11.90	.....	.....	.....	.....	.....	701-0319	17.32	15.75	14.25	13.25

DC MILLIAMMETERS

0-1	14	701-0020	16.06	14.45	13.00	11.70	701-0250	16.44	14.95	14.05	13.20	701-0321	17.76	16.15	15.05	13.95
0-10	5.0	701-0022	17.02	15.36	13.80	12.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0-15	3 3	.....	.....	.....	.....	.....	701-0256	16.44	14.95	14.05	13.20	.....	.....	.....	.....	.....
0-20	2.5	701-0024	16.06	14.45	13.00	11.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0-50	1.0	.....	.....	.....	.....	.....	701-0260	18.15	16.50	15.45	14.75	.....	.....	.....	.....	.....

DC AMMETERS

0-1	.050	701-0001	17.04	15.36	13.80	12.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0-5	.010	701-0002	17.04	15.36	13.80	12.85	.....	.....	.....	.....	.....	701-0303	18.15	16.50	15.65	14.80
0-10	.005	.....	.....	.....	.....	.....	701-0210	18.15	16.50	15.45	14.75	.....	.....	.....	.....	.....
0-15	.0033	701-0004	17.04	15.36	13.80	12.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

DC MILLIVOLTMETERS

0-100	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	701-0339	18.15	16.50	15.65	14.80

DC VOLTMETERS (1000 Ohms/Volt)

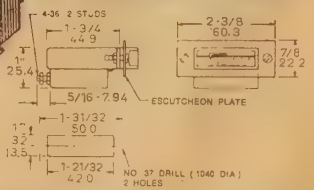
0-15	.....	701-0105	17.71	16.05	14.95	13.80	701-0277	17.76	16.15	15.05	13.95	.....	.....	.....	.....	.....
0-30	.....	701-0110	17.71	16.05	14.95	13.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0-50	.....	.....	.....	.....	.....	.....	701-0281	17.76	16.15	15.05	13.95	.....	.....	.....	.....	.....
0-150	.....	.....	.....	.....	.....	.....	701-0285	17.76	16.15	15.05	13.95	.....	.....	.....	.....	.....
0-300	.....	701-0130	17.71	16.05	14.95	13.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

AC VOLTMETERS (1000 Ohms/Volts)

0-150*	.....	701-0435	23.16	19.95	18.50	16.85	701-0445	24.00	20.50	19.30	17.85	701-0455	24.50	21.00	19.80	18.35
0-300*	.....	.....	.....	.....	.....	.....	701-0450	24.00	20.50	19.30	17.85	701-0460	24.50	21.00	19.80	18.35



MODEL 350 EDGEWISE METERS



ECONOMICAL METERS WITH ±5% ACCURACY

Model 350 edgewise meter; DC types polarized solenoid design, AC types double-vane repulsion design w/jeweled bearing. Mount in rect. hole, 1²¹/₃₂"x 1⁷/₃₂". Accuracy within ±5%. High temp. polystyrene case. ½" scale lgth. Black escutcheon plate. 6 oz.

Model 850 2½-inch rectangular panel meters have snap-on plastic crystal and an accuracy to within ±5%. DC types polarized-vane solenoid; AC types double-vane repulsion jeweled bearing. Mt. in 2⁵/₃₂"x2¹/₃₂" panel hole. With zero adjust. 6 oz.

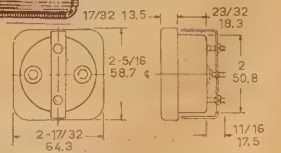
Model 750 accuracy within ±5%. DC movements have moving magnet design w/high torque repulsion vane design. Both AC and DC types have jeweled bearings. Polystyrene meter fronts. Mt. in 3½"x3" panel hole. With zero adjust. 6 oz

DC MILLIAMMETERS, AMMETERS AND VOLTMETERS

Range	MODEL 350 EDGEWISE Stock No.	EACH 1-9	10-24	25-49	50-Up	MODEL 850Z RECTANGULAR Stock No.	EACH 1-9	10-24	25-49	50-Up	MODEL 750Z RECTANGULAR Stock No.	EACH 1-9	10-24	25-49	50-Up
0-1 mA DC	701-3300	9.07	7.25	5.80	5.22	701-8336	10.50	8.40	6.72	6.04	701-7336	11.25	9.00	7.20	6.48
0-5 mA DC	701-3302	8.32	6.65	5.32	4.79	701-8302	8.10	6.48	5.18	4.66	.....	.....	.....	.....	.....
0-50 mA DC	701-3306	8.32	6.65	5.32	4.79	701-8306	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-100 mA DC	701-3307	8.55	6.84	5.47	4.92	701-8307	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-200 mA DC	.....	.....	.....	.....	.....	701-8309	7.87	6.30	5.04	4.53	701-7309	11.17	8.94	7.15	6.43
0-300 mA DC	.....	.....	.....	.....	.....	701-8310	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-500 mA DC	.....	.....	.....	.....	.....	701-8312	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-1 A DC	.....	.....	.....	.....	.....	701-8201	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-5 A DC	701-3203	8.55	6.84	5.47	4.92	701-8203	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-10 A DC	701-3205	8.55	6.84	5.47	4.92	701-8205	7.87	6.30	5.04	4.53	701-7205	11.25	9.00	7.20	6.48
0-15 A DC	.....	.....	.....	.....	.....	701-8206	7.95	6.36	5.08	4.57	.....	.....	.....	.....	.....
0-25 A DC	.....	.....	.....	.....	.....	701-8207	8.25	6.60	5.28	4.75	.....	.....	.....	.....	.....
30-0-30 A DC	.....	.....	.....	.....	.....	701-8215	8.25	6.60	5.28	4.75	.....	.....	.....	.....	.....
0-3 V DC	.....	.....	.....	.....	.....	701-8102	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-5 V DC	701-3104	8.70	6.96	5.56	5.01	701-8104	7.87	6.30	5.04	4.53	.....	.....	.....	.....	.....
0-10 V DC	701-3107	8.70	6.96	5.56	5.01	701-8107	7.95	6.36	5.08	4.57	.....	.....	.....	.....	.....
0-15 V DC	701-3108	8.70	6.96	5.56	5.01	701-8108	7.95	6.36	5.08	4.57	701-7108	11.25	9.00	7.20	6.48
0-25 V DC	.....	.....	.....	.....	.....	701-8109	8.10	6.48	5.18	4.66	701-7109	11.25	9.00	7.20	6.48
0-150 V DC	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	701-7115	11.50	9.18	7.34	6.60

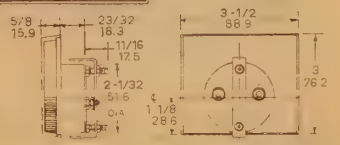


MODEL 850
2½-INCH
RECTANGULAR





MODEL 750
3½-INCH
RECTANGULAR



AC VOLTMETERS, AMMETERS AND MILLIAMMETERS

0-10 V AC	.....	.....	.....	.....	.....	701-8403	9.90	7.92	6.33	5.70	.....	.....	.....	.....	.....
0-15 VAC	.....	.....	.....	.....	.....	701-8404	9.90	7.92	6.33	5.70	.....	.....	.....	.....	.....
0-150 V AC	701-3406	12.00	9.60	7.68	6.91	701-8406	10.57	8.46	6.76	6.09	701-7406	12.30	9.84	7.87	7.08
0-1 A AC	.....	.....	.....	.....	.....	701-8501	9.75	7.80	6.24	5.61	.....	.....	.....	.....	.....
0-5 A AC	.....	.....	.....	.....	.....	701-8503	9.75	7.80	6.24	5.61	.....	.....	.....	.....	.....
0-10 A AC	.....	.....	.....	.....	.....	701-8504	9.75	7.80	6.24	5.61	.....	.....	.....	.....	.....
0-500 mA AC	.....	.....	.....	.....	.....	701-8605	10.57	8.46	6.76	6.09	.....	.....	.....	.....	.....

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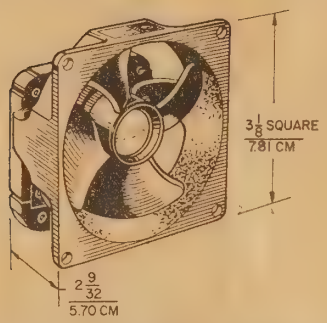
Write, Wire or Phone Allied Electronics for Larger Quantity Prices

Cooling Fans and Cross Index

FAN CROSS INDEX

Stock No.	Pg. No.	Mfr's Type	Replaces Rotron	Replaces IMC
600-7506	213	7606S	MA2B4	BS-2107FL
600-4110	213	4124X	.....	WS-2107F-24
600-8500	213	8500C	.....	MW-S2107FL-2
600-8506	213	8506	.....	MB-S2107FL
600-8501	213	8500P	SP2A2/SP2A2L	MW-S2107FL
600-4600	214	4600X	CT3A2	WS-2107F-110
600-4650	214	4650X	CT3A52, M756	WS-2107F-6, WS-2107F-3
600-4800	214	4800X	WR2A1/WR2H1	WS-2107F1-2
612-0100	215	760-125XR-2182-11115	CR2A1	.....
612-0120	215	760-125XR-2181-11220	CR52A1	.....
612-0170	215	760-126LF-2182-11115	SU2A1	.....
612-0180	215	760-126LJ-2182-11115	SU2C1	.....
612-0140	215	760-120YZ-2182-11115	MA2B4	.....
612-0500	215	133LP-2182	MU2A1	.....
612-0510	215	133LX-2182	WR2H1	.....
612-0520	215	133LY-2182	WR2A1	.....
618-0200	212	Shroud Type 65-B	.....	WS-2107F1-2
618-0200	212	Shroud Type 75-B	WR2H1	WS-2107F

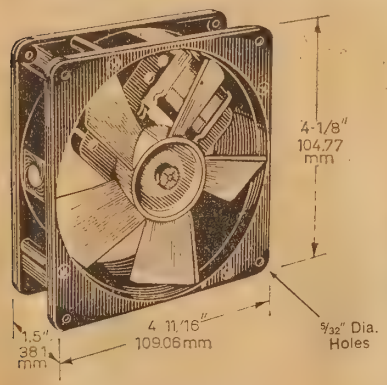
BLAZER 30



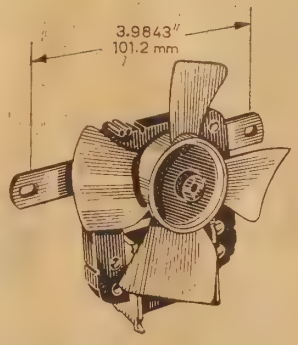
- IMPEDANCE PROTECTED
- UL & CSA RECOGNIZED
- PLASTIC FAN BLADE FOR SAFETY
- ALUMINUM SHROUD PAINTED BLACK

The Blazer 30 fans offer long life with high air flow at low noise levels. These fans incorporate the proven Unit Bearing Shaded Pole motor design with stationary shaft and rotating bearings, insuring oil retention. The motor will operate continuously at normal room temperatures for over ten years without additional lubrication. These units mount on the same centers as the popular 3⅛" (7.81cm) square box fans. Blazer 30 comes with 16" (40cm) long, #18 Zipcord leads with female insulated terminals to fit .110 x .032" (.275 x .08cm) male lug-standard.

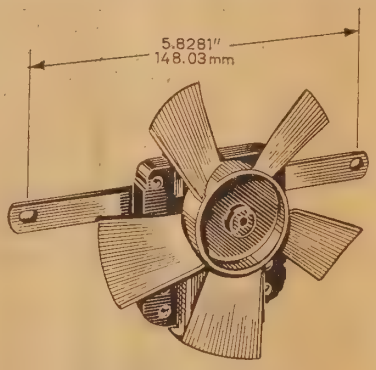
Stock No.	Mfr's Type	Air Flow	Volts AC	Watts	CFM	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-UP
618-0050	17-0004	Over	115	10	30/40	10.00	8.60	8.00	7.50
618-0060	17-0009	Away	115	10	30/40	10.00	8.60	8.00	7.50



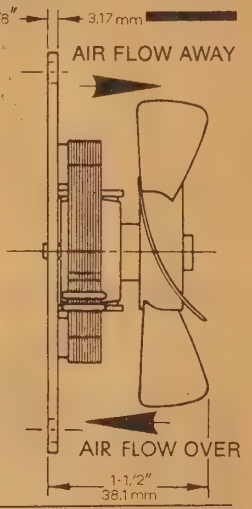
MODELS 45, 65, & 75



SKELETON 45



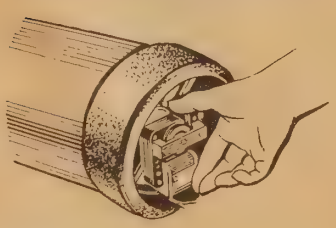
SKELETON 65 & 75



Ideal where small size and long life with high air flow at low noise levels is desired. Unit bearing shaded pole motor design with stationary shaft and rotating bearings insure oil retention. Interchangeable mounting with competitive fans. Motor on 1¼" (38.1mm) mounting centers. All metal mounting eliminates breakage. Male terminal accepts standard female plug. UL and CSA recognized. Impedance protected. 115V. 60Hz. **Model 45:** Ultra quiet fan also mounts on 3 43/64" mounting centers. **Models 65** and **75:** Super quiet fan also mount on 5 53/64" mounting centers. Plastic fan blade. *Refers to air flow over motor or away from motor.

Stock No.	Description	Watts	CFM	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
618-0090	Shroud Type 45	10	40/50	1¼	13.17	11.05	10.53	9.87
618-0100	Shroud Type 65	10	60/70	1¼	13.17	11.05	10.53	9.87
618-0200	Shroud Type 75	20	70/80	1½	13.17	11.05	10.53	9.87
618-0400	Skeleton 75 Air Away*	20	70/80	1	10.00	8.60	8.00	7.50
618-0500	Skeleton 75 Air Over*	20	70/80	1	10.00	8.60	8.00	7.50
618-1000	Skeleton 45 Air Away*	10	40/50	1	10.00	8.60	8.00	7.50
618-1100	Skeleton 45 Air Over*	10	40/50	1	10.00	8.60	8.00	7.50
618-1200	Skeleton 65 Air Away*	10	70/80	1	10.00	8.60	8.00	7.50

DUCTED BOOSTER FAN



Installs in just minutes. Fan cartridge fits standard heating ducts. To insert fan into heating system duct: simply disconnect the duct and insert fan cartridge (as shown at left). The sponge rubber cuff serves to double insulate and hold unit securely in place. Requires no mounting screws or brackets. Drill a 7/16" (11.1 mm) hole for the grommet (included), thread cord through and connect to motor leads. Twist-on wire connectors are furnished for the splices. Fan can be operated from a light switch, thermostat, speed control (standard light dimmer), or just plug it in and let run continuously. Full speed range 1750-2100 RPM. Operates on 115V, 60 H_2 AC.

Stock No.	Mfr's Type	CFM	Fan Lgth "A"	Duct Size "B"	Volt-Age	Wt. Lbs.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
618-2000	Duct 15-0024	55	2¾" (69.85mm)	5" Dia. (127mm)	115	2	16.58	13.90	13.26	12.44
618-2100	Duct 15-0001	75	2¾" (69.85mm)	6" Dia. (152.4mm)	115	2	16.58	13.90	13.26	12.44
618-2200	Duct 15-0022	150	3¼" (82.55mm)	8" Dia. (203.2mm)	115	3	19.92	17.07	15.93	14.94

Miniature and Sub-Miniature Air Cooling Fans

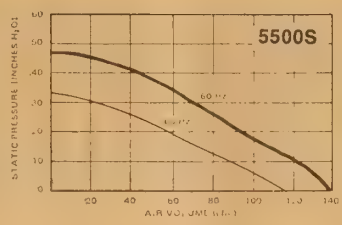
All Fans on This Page are U/L Recognized, Meet IEC Specs and Conform To CSA Specifications

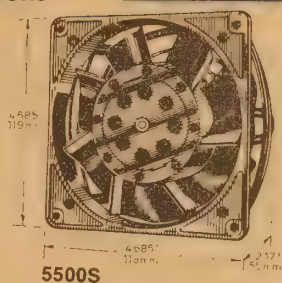
COOLING FANS

MODEL 5500S MINIATURE COOLING FAN

Specially designed for silent performance and efficient high air flow. Low noise level applications for industrial, military and commercial uses. Unique aerodynamic design for the highly desirable combination of high air delivery and low acoustical disturbance. Stable linear performance within its full range of pressure capabilities. Also has the packaging advantages of radial-impeller combination. Rated life 100,000 hours at 20° continuous operation.

Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
600-5500	5500S	115	43.50	39.15	36.30	33.90



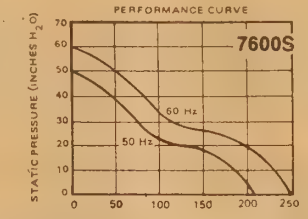


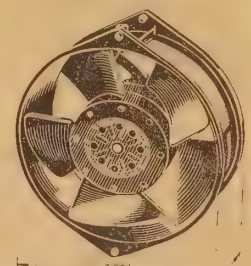
5500S

7600 SERIES MINIATURE AXIAL FANS

Model 7600S. Miniature axial fan. Designed for very high air flow and low noise applications. **Model 7606.** Miniature axial fan. Designed for high temperatures, up to 85°C. Very high air flow. For low noise applications. Ball bearing construction. Excellent for a variety of electronic equipment ranging from sophisticated test gear to elevator control equipment. These miniature axial fans are suitable for practically any industrial, military or commercial application.

Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
600-7500	7600S	115	37.65	33.85	31.40	29.35
600-7506	7606	115	63.75	57.35	53.15	49.65



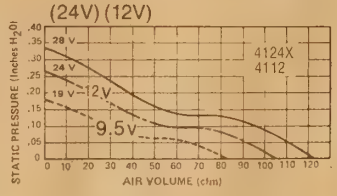


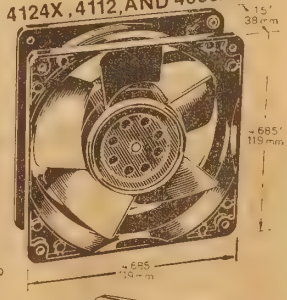
7600S

LOW VOLTAGE DC FANS — MODELS 4124X AND 4112 MINIATURE AXIAL FANS

Offers a greater air volume, reduced noise level and power draw. At maximum back pressure, the power draw is approximately 20% of that required in AC units. Develops close to zero magnetic radiation and no RF noise. May be used in series for 48VDC requirements with no need for equalizing circuits. Designed to operate at 19-28VDC (24V), 9.5-14VDC (12V) with no external inverter. Brushless motor is polarity protected. Special moisture resistant finish.

Stock No.	Mfr's Type	VDC	EACH			
			1-9	10-24	25-49	50-Up
600-4110	4124X	24	76.65	68.95	63.85	59.75
600-4112	4112	12	95.66	68.95	63.85	59.75

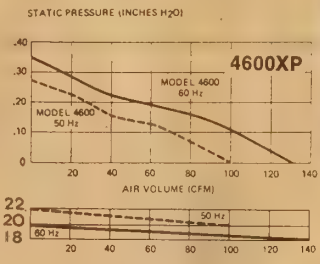


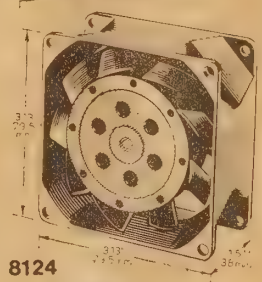


4600XP MINIATURE FAN

Provides high airflow at high back pressures and low noise level. Gives extra margin required for applications in which higher packing densities may be encountered. All metal construction. Specifications: Air flow: 120 CFM, SIL (Speech Interference Level): 34 db, Rated Life (continuous operation): 100,000 hours at 20°C. Wt. 18 Oz.

Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
600R4601	4600XP	115	27.85	25.05	23.20	21.70

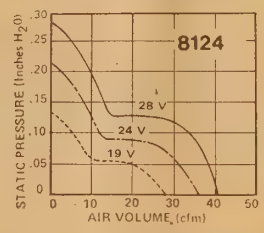


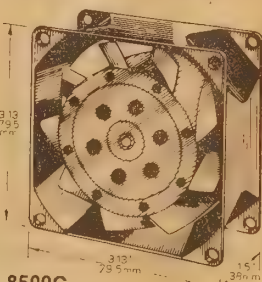


MODEL 8124 MINIATURE AXIAL FAN

For applications requiring reliable DC performance. Power draw at maximum back pressure is approximately 20% of that required in AC units. Develops close to zero magnetic radiation and no RF noise. Designed to operate from 19-28 VDC. Requires no external inverter. Brushless DC motor is polarity protected. Easily mounted in series for 48 VDC operation with no need for equalizing circuitry. Special moisture resistant finish.

Stock No.	Mfr's Type	VDC	EACH			
			1-9	10-24	25-49	50-Up
600-8110	8124	24	76.65	68.95	63.85	59.75





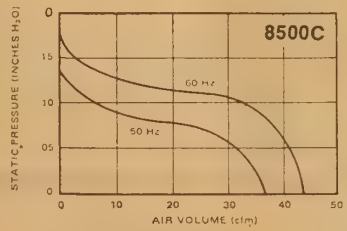
8124

8500C SUB-MINIATURE SHADED-POLE AXIAL FANS

For general cooling purposes. Ideal for tight dimension applications where performance and cost are important. ⅛" thinner than other 3⅛" fans. 20% more air flow in free air and almost 3 times the air flow at back pressures. 22.3 db SIL. More than 20,000 lubrication free hrs. of continuous duty at an ambient temp. of 85°C. For applications with high temp. environments. Standard mounting dimensions for EIA 3½" rack panels. All metal construction ensures longer life. 3200 rpm. Wt., 18½ oz.

Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
600R8500	8500C	115	22.70	20.40	18.90	17.70
600-8506	8506*	115	40.80	36.70	34.00	31.80

(*) High temperature, ball bearing versions.

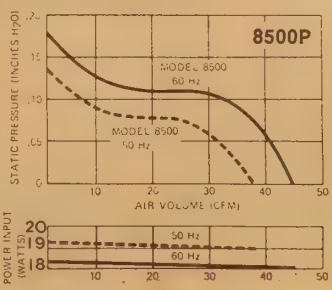


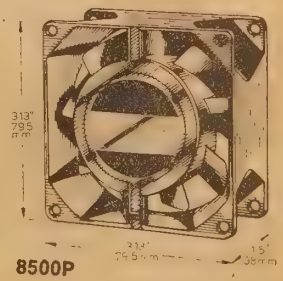
8500C

8500P SUB-MINIATURE FAN

Provides 20% more air flow in free air. Ideal for cooling portable equipment, standard 3½" rack applications where size is limited and low noise desirable. Specifications: Air Flow: 43 CFM, SIL (Speech Interference Level): 22.3 db, Rated Life (continuous operation): 100,000 hours at 20°C. Wt. 18½ oz.

Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
600-8501	8500P	115	25.45	23.55	22.05	20.85





8500P

18

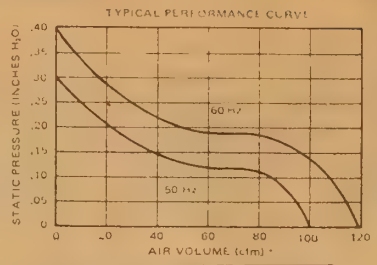
COOLING FANS

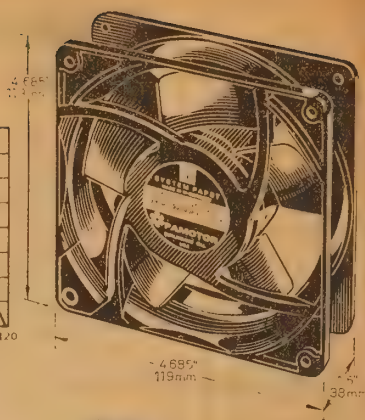
Air Cooling Fans

4600X SERIES SHADED-POLE MINIATURE FANS

Model 4600X. Combines the features of extended life with high air flow delivery at low noise levels. Delivers 120 cfm at a noise level of less than 34 SIL (Speech Interference Level). 4⅛" universal mount. Over 100,000 hours of continuous operation in normal room temperature. Heavy duty plug-in terminals (also solderable—#18 AWG wire). 115-125 VAC, 50/60 Hz, 3100 RPM, 18 watts, Shpg. wt. 18 oz.

Model 4606X. Miniature axial cooling fan. Designed to operate at an ambient temperature of 85° for high air flow, low noise applications such as equipment requiring fans to operate in an exhaust stream. Ball bearing construction.



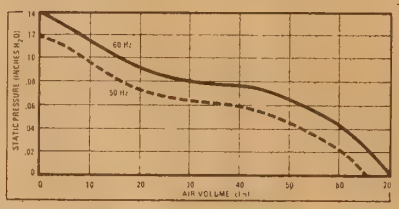


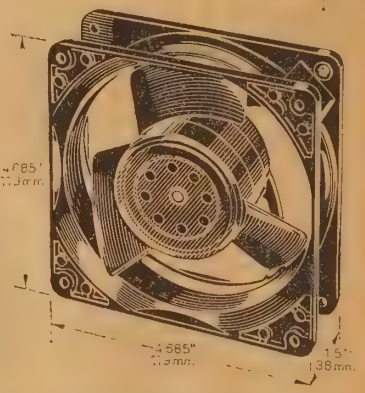
Stock No.	Mfr's Type	VAC	EACH 1-9	10-24	25-49	50-Up
600R4600	4600X	115	21.45	19.30	17.90	16.75
600-4650	4650X	230	22.50	20.25	18.75	17.55

Stock No.	Mfr's Type	VAC	EACH 1-9	10-24	25-49	50-Up
600-4506	4606X	115	39.20	33.30	32.70	30.55

MODEL 4800X SHADED-POLE MINIATURE AXIAL FAN

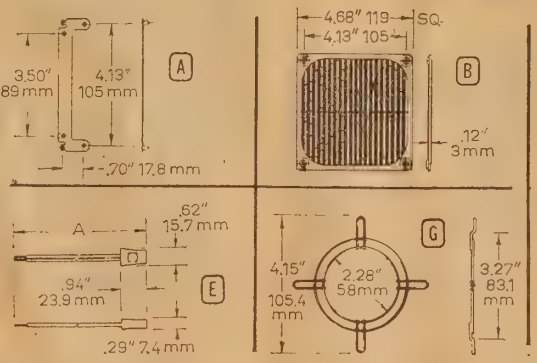
Model 4800X. Specially designed for silent performance with a noise level of less than 21 db SIL (Speech Interference Level). Delivers 70 cfm of air, making it ideal for a wide variety of applications. Comparison with other fans will show the Model 4800X to be far superior in performance. It provides more air at less noise than any conventional metal or plastic fan of its size, and at a lower cost.

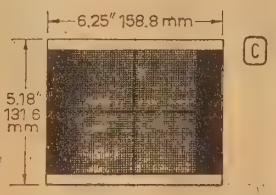


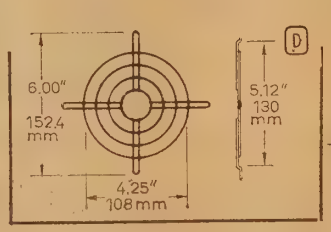


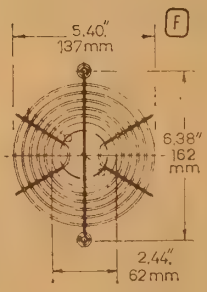
Stock No.	Mfr's Type	VAC	EACH 1-9	10-24	25-49	50-Up
600R4800	4800X	115	22.50	20.25	18.75	17.55

ACCESSORIES FOR COOLING FANS







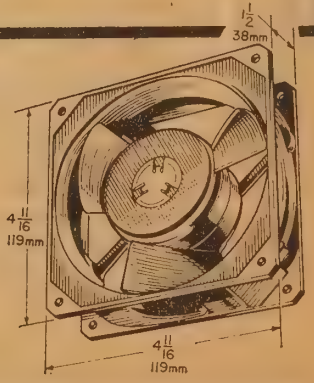


Stock No.	Type	Description	Fig.	Fits Fan Series	EACH 1-99	100-249	250-Up
600-5501	5501	Mtg. Bracket	A	4124, 4600, 4800, 5500	2.25	1.15	1.08
600R5502	5502	Filter	B	4124, 4600, 4800, 5500	5.12	2.85	2.44
600-5503	5503	Metal Screen	C	4124, 4600, 4800, 5500	10.00	6.40	5.88
600R5504	5504	Finger Guard	D	4124, 4600, 4800, 5500	5.87	3.20	3.00

Stock No.	Type	Description	Fig.	Fits Fan Series	EACH 1-99	100-249	250-Up
600R5505	5505	Plug & Cord	E	4124, 4600, 4800	2.12	1.20	1.12
600-5506	5506	Finger Guard	F	7600	10.00	6.55	5.88
600-5508	5508	Finger Guard	G	8124	4.87	2.65	2.30

MODEL 133 AXIAL FANS

Quietest and most powerful of the "100 CFM" 4-11/16" fans. Better than 5 decibels quieter than the most popular of the "100 CFM" fans at typical working pressure. Delivers 60 CFM at .15" H_2O. Magnecenter suspension system assures long life in any position. **Type 82** is 115 VAC, 50/60 Hz operation. Width 1½", mounting centers 4.13". UL recognized. LX and LY models run at ¾ and ½ speed for even quieter operation. Shpg. wt. 20 oz.



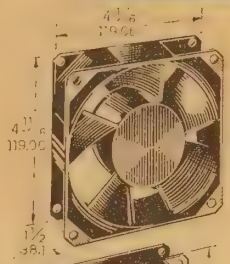
Stock No.	Mfr's Type	VAC	EACH 1-9	10-24	25-49	50-Up
612-0500	133LP-2182	115	15.60	14.20	13.10	12.20
612-0510	133LX-2182	115	16.60	15.10	13.95	12.95
612-0520	133LY-2182	115	16.60	15.10	13.95	12.95

Fans and Accessories to Keep Equipment Cool

760 SERIES 4 11/16" AXIAL FANS

Model 125XR is one of the most powerful fans of its size. It can replace two of the popular 4 11/16" "100 CFM" fans at typical working pressures. Model 125XL is a half-speed version of the 125XR. Delivers 86 CFM at .15" H_2O. 5 decibels quieter than nearest competitive product. Durable all metal housing coupled with quality construction assure years of trouble free operation. 50/60 Hz operation. UL recognized. 4.135" mounting centers. Type 182 for 115V; 181 for 220V. Wt. 18 oz.

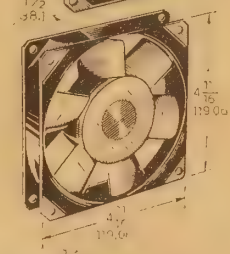
Stock No.	Mfr's Type	CFM	EACH			
			1-9	10-24	25-49	50-Up
612R0100	760 125XR-182-11115	110	24.50	22.50	21.00	19.50
612-0120	760 125XR-181-11220	110	24.50	22.50	21.00	19.50
612R0110	760 125XL-182-11115	55	25.95	23.85	22.30	20.75



760 SERIES 1" THIN AXIAL FAN

Model 98XH. This 1" thick axial fan will fit where there isn't enough space for standard fans. Same mtg. centers as standard 4 11/16" fans. Fan is skillfully engineered and precision built with ball bearings and rugged aluminum frame for longer life. UL component recognition. 50/60 Hz operation. 50 CFM at .1" H_2O, 73 CFM free flow. Ideal for computer, test equipment and power supply applications. Wt. 13 oz.

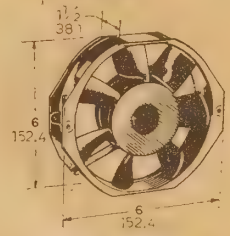
Stock No.	Mfr's Type 760 98XH-	VAC	EACH			
			1-9	10-24	25-49	50-Up
612-0130	182-11115	115	26.50	24.25	22.70	21.10



MODEL 120 1½" THIN AXIAL FAN

Model 120VZ with its high pressure and air flow can replace as many as four "100 CFM" fans. Quietly delivers more cooling air than many 2" thick fans. Precision design and construction featuring a durable aluminum frame and double shielded ball bearing assure years of trouble free operation. This 6" axial fan has a mounting center of 6.378". UL recognized. 50/60 Hz operation. Shpg. wt. 28 oz.

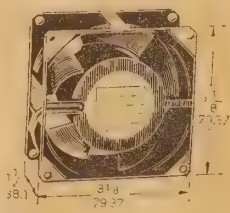
Stock No.	Mfr's Type 760-120VZ	VAC	EACH			
			1-9	10-24	25-49	50-Up
612-0140	282-11115	115	46.60	42.40	39.00	35.80
612-0145	281-11220	220	46.60	42.40	39.00	35.80



760 1½" DEEP AXIAL FANS

This compact axial fan provides more cooling air more quietly than many 3⅛" fans. Delivers 23 CFM at .10" H_2O and is 16 decibels quieter than many 3⅛" fans. Rugged all metal frame, magnecenter suspension provide trouble free long life in any position. 2.815" mounting center. Model LJ runs at a reduced speed for even quieter operation on applications where cooling requirements are less. UL recognized. 50/60 Hz operation. Shpg. wt. 18 oz.

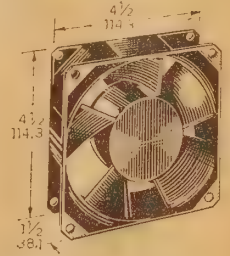
Stock No.	Mfr's Type	VAC	EACH			
			1-9	10-24	25-49	50-Up
612-0170	760-126LF-2182-11115	115	16.80	15.80	14.60	13.95
612-0180	760-126LJ-2182-11115	115	17.65	16.60	15.35	14.65



COOLING FANS

Interchangeable with all other 4½-inch fans. Quality construction throughout — durable heat sink metal frame, tough polycarbonate impeller, lightweight non-position sensitive rotor and large sealed oil reservoir sleeve bearing system assure maximum reliability and life. Locked rotor impedance protection. Temperature range: +20°C to +85°C. Typical life in excess of 5 years. Two .110" wide quick disconnect terminals for soldering or cord. U.L. recognized. 115 VAC, 50-60 Hz. Shpg. wt. 1 lb.

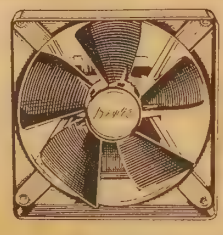
Stock No.	Mfr's Type	CFM	Noise Level	EACH			
				1-9	10-24	25-49	50-Up
613-0340	3-15-3450	100	33dB	14.55	12.47	11.64	10.94
613-0320	3-15-2450	60	24dB	14.30	12.25	11.48	10.76

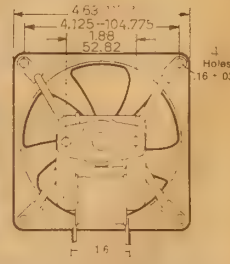


LOW NOISE FANS

Low cost cooling with increased reliability, greater airflow and low noise level—only 31dB. Operating life exceeds that of concentric motor designs because the winding heat is kept away from the lifetime lubricated self-aligning bearings which incorporate the positive oil circulation system. Life: better than 100,000 hrs. @ 25°C. Rugged metal frame mounts on conventional 4⅛" ctr. The powerful two-pole shaded pole motor is impedance protected during locked rotor condition. Temp. range: —30°C to +55°C. Rugged die-cast housing. Struts: ⅜" dia. aluminum. Impeller and bobbin: 94V-O rated plastic. Two built-in 12-in. 18 gauge leads. 50/60 Hz operation. UL recognized and CSA listed. Wt. 1 lb.

Stock No.	Mfr's Type	VAC	Air Flow	Air Delivery CFM	EACH			
					1-10	11-25	26-49	50-Up
614-0450	2329	115	Exhaust	117	10.88	9.33	8.71	8.16
614-0420	2320	115	Intake	103	10.88	9.33	8.71	8.16
614-0440	2333	115	Exhaust	75	10.66	9.15	8.54	7.99
614-0460	2334	115	Intake	61	10.66	9.15	8.54	7.99





ACCESSORIES

**30 Inch Plug and Cord for Fans. ‡Jumper For Multiple Connection.

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
612-0210	760-9601-06**	1.50	1.30	.95	.90
612-0220	760-9601-07‡	2.20	1.90	1.40	1.25

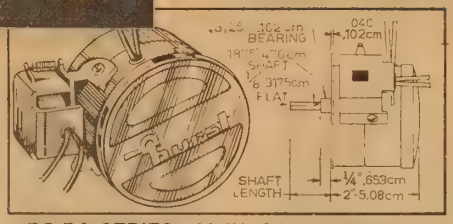
FINGER GUARDS *For All 4½" Fans. †For Model 120VZ Only.

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
612-0230	760-9601-43*	2.15	1.80	1.25	1.10
612-0240	760-120-01-43†	3.80	2.55	2.40	2.25

REUSABLE ALUMINUM FILTER

Stock No.	Mfr's Type	EACH			
		1-9	10-24	25-49	50-Up
612-0190	760-100-45*	3.68	3.10	2.50	2.05
612-0200	760-100-65†	3.95	3.35	2.75	2.30

Motors and Speed Controls



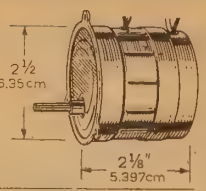
PC-DA SERIES 120 IN.-OZ. REVERSIBLE

Positive Brake and Clutch. Basic reversible motor with positive clutch and instantaneous brake. Highly accurate, vibration and shock resistant. Starts in 20 milliseconds—stops 60 rpm shaft in 1/8". Shpg. wt. 1½ lbs. ***Specify 1, 2, 20 or 60 rpm when ordering.**

Stock No.	rpm	EACH			
		1-9	10-24	25-49	50-Up
811-09XX	1-60*	34.60	28.75	27.31	25.94

CA SERIES 100-IN.-OZ. REVERSIBLE

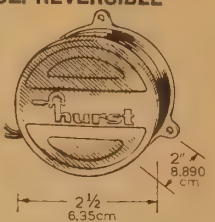
SPDT switching, instantly reversible. 100 in.-oz. torque rated at 1 rpm. Capacitor incl. Stainless steel output shaft, 1/16" dia. x 1". Case: 2½" dia. x 2⅛" deep.



Stock No.	rpm	EACH			
		1-9	10-24	25-49	50-Up
811-0297	⅓	22.53	18.72	17.79	16.91
811-0298	½	22.53	18.72	17.79	16.91
811-0299	1	22.53	18.72	17.79	16.91
811-0397	600	22.53	18.72	17.79	16.91

DA SERIES 150 IN.-OZ. REVERSIBLE

Instantly reversible (SPDT switch), highly accurate both clockwise and counter-clockwise. Effective magnetic shielding. Continuous duty. Capacitor included. Torque: 150 inch-ounces at 1 rpm. Stainless steel output shaft, 3/16" dia. x 1" long, flatted. Case size: 2½" dia. x 2" deep. Shpg. wt. 1 ¼ lbs. ***Specify 1, 2, 4, 6, 10, 20, 30 or 60 rpm.**



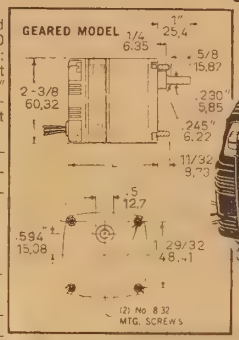
Stock No.	*rpm	EACH			
		1-9	10-24	25-49	50-Up
811-04XX	1-60	25.00	20.80	19.75	18.75

HOW TO COMPLETE STOCK NUMBERS. Where Stock No. has XX in last 4 digits, insert speed (in rpm) to replace XX. Ex.: Type DA motor with 10 rpm speed (811-04XX) becomes 811-0410.

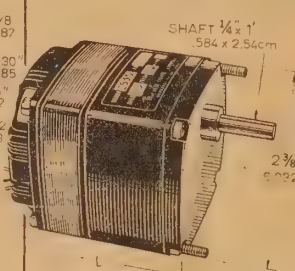
REVERSIBLE INSTRUMENT MOTORS

For continuous duty applications requiring high reliability, compact size and high output torque. Motors are totally enclosed. Torque: gear train rating, 250 oz.-in. at 1 rpm. Gearing: combination "helical" and "spur." Temperature rise: 40°C. Rotation: reversible, with 3 color-coded leads; capacitor included. Shaft size: stainless steel, ¼" dia. x 1" long, flatted on geared models; 3/16" dia. x 5/8" long, flatted on direct drive. Size: geared, 2⅜" dia.; direct, 2⅜" square. Mounting: geared, 2 of the 4 frame screws are extended for face mounting; direct drive four 8-32 tapped mtg. holes. For 115 VAC.

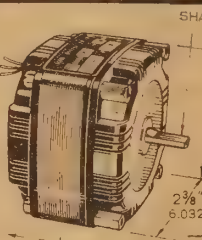
Stock No.	Mfr's Type	RPM	Torque Oz.-In.	Lgth., In.	EACH		
					1-9	10-24	25-Up
811-1220	2422-535	1	250	2 17/32	59.05	48.30	47.31
811-1222	2422-536	2	150	2 17/32	59.05	48.30	47.31
811-1234	2432-555	30	27	3 1/32	59.05	48.30	47.31
811-1235	2432-557	60	15	3 1/32	59.05	48.30	47.31
811-1239	2442-562	300	2.9	2 7/8	56.30	46.85	45.12
DIRECT DRIVE							
811-1240	2412-588	1800	0.6	2 3/16	37.15	30.75	28.80



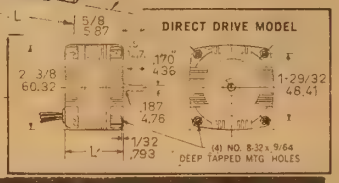
Synchronous—Available in Geared or Direct Drive Model



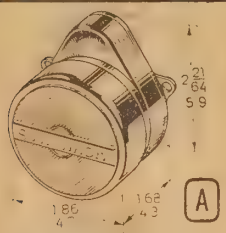
Popular Geared Model



Direct Drive—1800 rpm

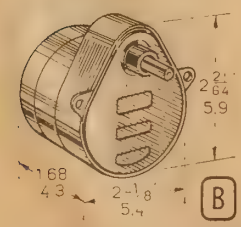


"SYNCHRON" MOTORS



"SYNCHRON." Hysteresis timing motors. Sealed gear case, brass gears and one-piece steel pinions. Two-piece field structure, shaded poles. Mount in any position. At 1 rpm or more, motor can be stalled without damage. Double bearing on rotor shaft, reduction train and output shaft. K12RC, 4 watt "K" coil, 20-oz.-in. torque at 1 rpm. I12RC, 3 watt "I" coil, 30-oz.-in. torque at speeds shown. All have Type 12 flatted, 1/8" dia. x 3/8" shaft. Clockwise. Two .142" dia. mtg. holes spaced 1.875". –40° to +140°F. 110V, 60 Hz AC. **Specify speed. Type K12RC, 1, 2, 3, 4, 6, 10, 30, 60 rpm; Type I12RC, 1, 2, 4, 10 or 12 revolutions per hour.** Average shpg. wt. 12 oz.

"900" SERIES MOTORS

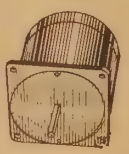


900 SERIES. Self-starting hysteresis-synchronous with positive direction. Instrument-type gear train, thicker gears match increased torque. Extra-heavy phenolic first gear for low noise level. Patented, hardened steel Synchron rotor ring; improved Class A coil construction. Silicone life-time lubrication. Mounts any position. Stall continuously without damage. 8 watts, 98-oz.-in. torque at 1 rpm. Flatted shaft, 3/16" dia. x ½" long. 3/8" dia. x 9/16" long bearing. Porous bronze bearing insert. Double bearings. Clockwise. 110V, 60 Hz AC. **Specify speed: 1, 2, 4, 6, 20, 30 or 60 rpm.** †Type 9GA393 RP. 12 oz.

Stock No.	Mfr's Type	Speed (Specify)	Fig.	EACH			
				1-9	10-24	25-49	50-Up
804-00XX	K12RC	1-60 rpm	A	7.20	5.74	4.78	4.09
804-01XX	I12RC	1-12 rph	A	7.60	6.10	5.03	4.33
804-090X	900†	1-2 rpm	B	18.50	15.82	14.75	13.80
804-09XX	900†	4-60 rpm	B	13.70	10.95	9.15	7.85

HOW TO ORDER MOTORS

Insert desired rpm (for K12RC and 900) or rph (for I12RC) in place of XX in Stock No. EXAMPLE: K12RC motor at 1 rpm is 804-0001.





"M" SERIES DIRECT DRIVE MOTOR

Precision dual speed synchronous industrial duty motor. Modular design reduces replacement and inventory costs. Permanently lubricated, electronicalls selected ball bearings. Rabbeted joints and bushed lead wire openings form totally enclosed die cast aluminum motor housing. Class "A" or better insulation materials. Instantly reversible. 115V, 60 Hz AC. Size: Body Dia. 4.02", Bolt Circle 4.724", Body Length 4.06", Shaft Dia. 9/16", Shaft Length 1.69", Pilot 3.701", Shaft Offset 0".

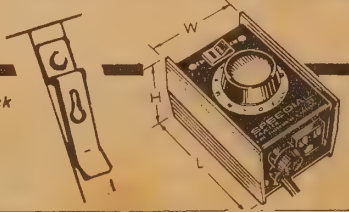
Stock No.	Mfr's Type	H.P.	Speed RPM	Torque Oz. In.	EACH
808-0024	HM10S15D7	1/50	1800/3600	5 6	99.95

MOTOR SPEED CONTROLS

Varies the speed of any universal AC-DC motor-driven tool, from 0 rpm to full speed without loss of power. For use with universal AC-DC and DC series motors only; may also be used on electric clutches and brakes requiring DC voltage from 0-85 V from 120 V input. Three-position switch: off/variable/full speed. Fused for circuit protection. MK-II and MK-III portable models are designed for the handyman or hobbyist; clip onto belt, wall, power tool. Other models are for industrial and professional use in factory, laboratory or in the field. All models have heavy duty 3-wire receptacle for voltage output; heavy duty vinyl 3-wire grounding input cord set with grounding plug. Rugged all-metal housings.

- For AC-DC and DC Series Motors
- "Off/Variable/Full Speed" Switch
- Fused For Circuit Protection

Clip-On Back for use on belt or wall

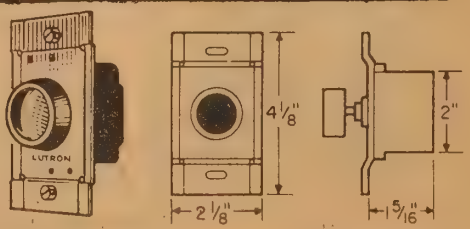


Stock No.	Mfr's Type	AC Input Volts	Maximum Motor Nameplate Rating	Approx. Max. HP	Approx. Max. Drill Size, In.	Width		Length		Height		EACH	
						In.	MM	In.	MM	In.	MM	1-9	10-Up
847-8006	MK-II	110-125	5 amps.	0.4	¼, 3/8	2.635	67	4	102	2.25	58	30.00	23.81
847-8007	MK-III	110-125	10 amps	0.8	½	2.635	67	4	102	2.25	58	40.00	31.98
847-8010	MK-15	110-125	15 amps	1.2	5/8	6.19	158	6.19	158	2.71	69	95.00	75.98

INDUSTRIAL FAN SPEED CONTROL

Model FS-5. A highly reliable fan speed control that provides continuously variable fan and blower speed, from full to any desired low speed. For use only with shaded pole, permanent split capacitor and universal (AC-DC) motors. Installs in single gang electrical wall box. Handles 5 amps maximum (motor nameplate rating). Built-in trimmer for setting speed to prevent stalls. Solid state. 120 VAC. (W.L.H.) 2.15x4.130x1.73" (55x105x44 mm).

- 5-Amp Speed Control
- Low- to Full-Speed
- Built-In Trimmer To Prevent Stalls
- Single Gang Wall Box



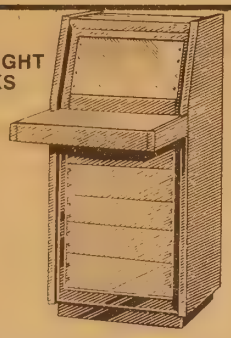
847-8004. 1-4 ..... Each 15.00
5-Up ..... Each 13.63

Call Allied for Price and Delivery of Items Not Located in This Guide

Cabinet Racks and Accessories



SERIES 2000 UPRIGHT CABINET RACKS



14 gauge steel frame, all-welded construction. Doors, sides and tops are 18 gauge steel. "U" braces welded to the sides of the frame add strength and rigidity. Braces also support the vertical mounting rails which can be adjusted horizontally. Front and rear panel mounting rails tapped to 10-32; base bracket for casters. Completely assembled. *Panel Space. **Finishes:** Royal blue (RB) or gray textured (GT) enamel with a clear anodized aluminum extrusion and gold textured (GD) with a gold anodized aluminum extrusion. ‡When ordering, specify color suffix, if none is given (RB) will be sent. White (WH) panels are recommended with gray or blue racks; sand (S) panels with gold. **(See page 219 for panels).**

Mfr's Type‡	Stock No.	Ht. In.	P.S.* In.	Depth In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
E-2000	736Q3949	30¼	21	23⅞	125	271.90	244.70	217.50
E-2001	736Q3954	40¾	31½	23⅞	150	298.35	268.50	238.70
E-2002	736Q3958	44¼	35	23⅞	155	304.30	273.85	243.45
E-2003	736Q3962	51¼	42	23⅞	167	334.90	301.40	267.90
E-2004	736Q3966	61¾	52½	23⅞	205	378.45	340.60	302.75
E-2005	736Q3974	70½	61¼	23⅞	219	404.40	363.95	323.50
E-2006	736Q3979	79¼	70	23⅞	240	445.45	400.90	356.35
E-2010	736Q4010	44¼	35	27⅜	165	322.35	290.10	257.90
E-2011	736Q4017	51¼	42	27⅜	187	360.40	324.35	288.30
E-2012	736Q4021	61¾	52½	27⅜	222	386.35	347.76	309.10
E-2013	736Q4027	70½	61¼	27⅜	235	436.35	392.70	349.10
E-2014	736Q4030	79¼	70	27⅜	265	479.10	431.20	383.30
E-2015	736Q4034	88	78¾	27⅜	280	507.40	456.65	405.90

INCLINED PANEL RACKS WITH SOLID SIDES AND DOOR

Positioned 20° off vertical for extra viewing comfort. Front vertical and inclined panel section, plus rear are adjustable from front to rear. *Inclined panel space. †Vertical panel space. ‡See above for information on ordering color.

Mfr's Type‡	Stock No.	Ht. In.	W. In.	* In.	† In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
SE-2064	736Q7102	51¼	24³⁄₁₆	10½	29¾	173	331.90	298.70	265.50
SE-2065	736Q7110	51¼	24³⁄₁₆	15¾	24½	173	349.75	314.80	279.80
SE-2066	736Q7122	51¼	24³⁄₁₆	17½	22¾	173	349.75	314.80	279.80



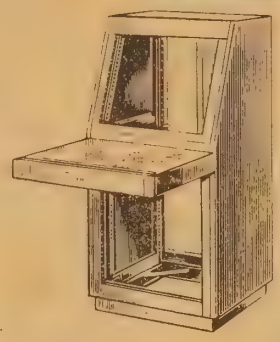
SERIES 2000 DESK TOPS

White Formica top. †Supporting channel. **Finish:** Gray (GT), royal blue (RB) and gold (GD) textured enamel. ‡When ordering, specify color suffix: if none is given (RB) will be sent.

Mfr's Type‡	Stock No.	W. In.	Dp. In.	H. In.	† In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
DT-2960	736Q3700	24³⁄₁₆	19½	3⅛	21¼	29	74.70	67.25	59.75
DT-2962	736Q3703	24³⁄₁₆	19½	3⅛	24¾"	30	77.20	69.50	61.75



SERIES 60 UPRIGHT CABINET RACKS



All-welded frame construction of 14-gauge steel. Doors, sides and tops are 18 gauge steel. "U" braces welded to the frame add strength and rigidity. Braces also support the vertical mounting rails which can be adjusted horizontally. Front and rear panel mounting rails tapped to 10-32; base bracket for casters. *Panel space. **Finishes:** Two color combinations are available. To achieve a two-tone effect, use dark toned frame and sides, light toned door and top. **Colors:** Two-tone blue (BBY) and two-tone gray (GGY). ‡When ordering, specify color by proper suffix; if none is given (BBY) will be sent.

Mfr's Type‡	Stock No.	Ht. In.	P.S.* In.	Depth In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
60-2300	736Q8900	29⅝	21	22	118	250.60	225.55	200.50
60-2301	736Q8905	40⅛	31½	22	156	275.80	248.20	220.65
60-2302	736Q8910	50⅝	42	22	173	308.25	277.45	246.60
60-2303	736Q8915	61⅛	52½	22	197	361.00	324.90	288.80
60-2304	736Q8920	69⅞	61¼	22	220	392.80	353.50	314.25
60-2305	736Q8925	78⅝	70	22	235	432.00	388.80	345.60
60-2307	736Q8935	29⅝	21	25½	156	259.90	233.90	207.90
60-2308	736Q8945	50⅝	42	25½	185	289.60	260.65	231.70
60-2310	736Q8950	61⅛	52½	25½	211	371.80	334.60	297.45
60-2311	736Q8955	69⅞	61¼	25½	240	416.70	375.05	333.35
60-2312	736Q8960	78⅝	70	25½	256	442.00	391.80	353.60
60-2313	736Q8970	87⅜	78¾	25½	267	460.45	414.40	368.35

SERIES 60 INCLINED PANEL RACKS

Accept 19" panels. Assembled. Front rails drilled, tapped at 10-32 W.E. spacing. Welded frame of 14 gauge steel; sides, door of 16 gauge steel. Inclined panel slated 20°. *Inclined top panel height. †Vertical panel height. **‡See above for information of ordering color.**

Mfr's Type‡	Stock No.	I.P.* In.	V.P.† In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
60-2330	736Q8975	10½	29¾	165	321.75	289.60	257.40
60-2331	736Q8980	15¾	24½	165	340.95	306.85	272.75
60-2332	736Q8985	17½	22¾	165	340.95	306.85	272.75

DESK TOPS

Fits all Series 60 cabinet racks. Easy to install; Bolt pre-drilled, full-length support channels to cabinet rack's mounting rails. **Finishes:** Dark blue texture (BB), dark gray texture (GG) or gray hammertone (HG). Top surface: Antique white Formica. 24⅛" wide, 19½" deep, 3⅛" high: ‡When ordering, specify color suffix, if none is given (BB) will be sent.

Mfr's Type‡	Stock No.	Depth In.	Support Channel	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
60-2360	736Q9001	22	21¼"	22	84.40	75.95	67.50
60-2362	736Q9003	25½	24¾"	23	87.10	78.40	69.70

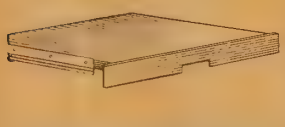
ACCESSORIES FOR 60 AND 2000 SERIES CABINET RACKS



DESK TOP DRAWER

Type 60-2363. Front panel height, 3½". Hinged panel top is Formica bonded to aluminum. Mount to "U" braces in cabinet. **Finishes:** Light blue textured (BY), light gray textured (GY), white textured (WH), sand textured (S), gray hammertone (HG). Specify color suffix when ordering, if none is given (BY) will be sent. Size inside: 16⁹⁄₁₆×3×14⅞". Wt. 19 lbs.

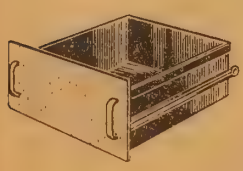
736Q9019. 1-2 ..... Each 118.15
3-4 ..... Each 106.35 5-Up ..... Each 94.50



SLIDING DESK TOPS

Type 60-2361. 1¾ panel space and 15⅛ x 17⅝ inside Working area, 11 x 17⅛. Formica surface **Finishes:** Light gray textured (GY), light blue textured (BY), white textured (WH) sand textured (S), gray hammertone (HG). Specify color suffix when ordering, if none is given (BY) will be sent Wt. 9¼ lbs

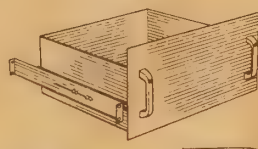
736Q9006. 1-2 ..... Each 48.70
3-4 ..... Each 43.85 5-Up ..... Each 38.95



DRAWER

Type 60-2368. Slides out 16". 16 gauge steel with 11 gauge panel, brackets. Handles: 16¹⁹⁄₃₂×6¹¹⁄₃₂×1¹³⁄₆₄". 8¾" panel space. **Finishes:** Light gray textured (GY), light blue textured (BY), white textured (WH), sand textured (S), gray hammertone (HG). Specify color suffix when ordering, if none is given (BY) will be sent. Wt. 28 lbs.

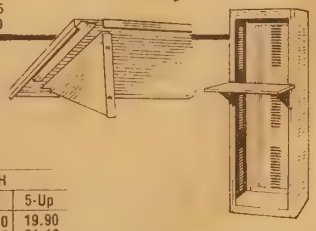
736Q9060. 1-2 ..... Each 100.60
3-4 ..... Each 90.55 5-Up ..... Each 80.50



ADJUSTABLE SLIDE DRAWER

Type D-1721. 19" panel space. Front panel; 8¾" high. Slide mechanism adjusts from 16½" to 24¼"; can be installed in cabinet with depth up to 25½". Size inside: 16⅝×6⅜×16⁹⁄₁₆". **Finishes:** Black rinkletex (BR), gray rinkletex (GR), gray hammertone (HG). Specify color suffix when ordering, if none is given (BR) will be sent. Wt. 19½ lbs.

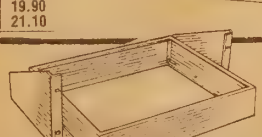
736Q9100. 1-2 ..... Each 87.25
3-4 ..... Each 78.55 5-Up ..... Each 69.80



SHELF ASSEMBLY

19" panel space. Can be attached over panel; mtg. brackets slip into slides. Shelf, 16 gauge steel; supports, ⅛" steel. Height: 7⅛". **Finishes:** Black rinkletex (BR), gray rinkletex (GR), gray hammertone (HG). Specify color suffix when ordering, if none is given (BR) will be sent.

Mfr's Type	Stock No.	W. In.	Depth In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
SA-1719	736Q9170	16	22	13¼	27.40	22.40	19.90
SA-1720	736Q9180	20	22	15¼	29.00	23.75	21.10



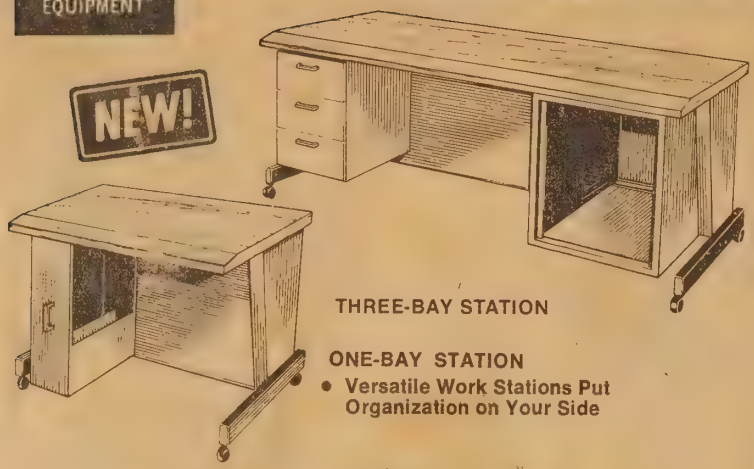
SLIDING DRAWER ASSEMBLY

Aluminum open chassis; brackets fasten easily on panel mtg. rails. Slide mechanism attaches to chassis, moves on ball bearings. Separate drawer plate can be fastened to top or bottom of chassis. Brackets and slides are steel with black finish. Chassis and drawer plate, gray hammertone (HG).

Mfr's Type	Stock No.	Description	Size In.	Wt. lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
SD-1717	736Q9150	Sliding Dr Assem	16¾x14x3	5	31.05	27.95	24.85
TP-1718	736Q9160	Drawer Plate	16¾x14	1½	11.12	6.70	5.95

Letter "Q" in Stock Number Indicates Direct Factory Shipment to You

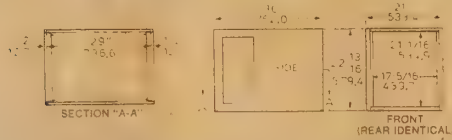
Work Stations and Accessories



THREE-BAY STATION

ONE-BAY STATION

- **Versatile Work Stations Put Organization on Your Side**



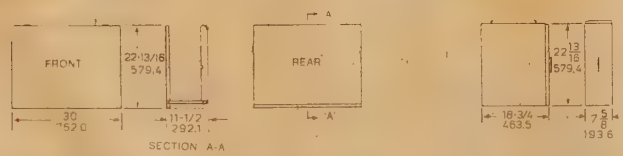
Cabinet. Can be mounted on right or left side of two- or three-bay desk framework. Front and rear adjustable mounting rails tapped 10-32 on E.I.A. spacing. Solid bottom panel supplied. Perforated bottom panel and doors optional. 16 gauge steel.



Two-Bay Deluxe Rear Unit. For storage, cable routing and/or mounting 19x21″ (48.26x53.34cm) equipment. Reversible rear doors affixed with pin hinges along one side; locking bar and magnetic latch on opposite side. Optional 21″ (53.34cm) and 30″ (76.2cm) shelves, mounting rails and divider panels available. Modesty panel and rear frame, 16 gauge steel. Doors, 18 gauge steel. Door mounting strips, 11 gauge steel.

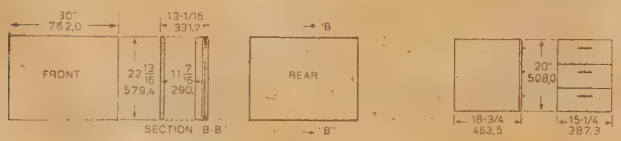


Three-Bay Deluxe Unit. For storage, cable routing and/or mounting 19x21″ (48.26x53.34cm) equipment. Reversible rear doors affixed hinges along one side; locking bar and magnetic latch on opposite side. Optional 21″ (53.34cm) and 30″ (76.2cm) shelves, mounting rails and divider panels available. Modesty panel and rear frame, 16 gauge steel. Doors, 18 gauge steel. Door mounting strips, 11 gauge steel.



Standard Rear Unit. For storage and/or cable routing. Rear quick-disconnect panel secured by two ¼-turn fasteners at top and two open slots at bottom. Optional 30″ (76.2cm) shelf. Modesty panel and shelf, 16 gauge steel. Rear panel, 20 gauge steel. Knobs, black plastic.

Vertical Drawer. Mounts on either side of desk frame or next to a cabinet. Two ballbearing telescoping slides. Pencil tray at top; divider panel at bottom. 20 gauge steel.



One-Bay Deluxe Rear Unit. For storage, cable routing and/or mtg. 19x21″ (48.26x53.34cm) equipment. Reversible rear door affixed with pin hinges along one side; locking bar and magnetic latch on opposite side. Optional 30″ (76.2cm) shelves, mtg. rails and divider panels available. Modesty panel and rear frame, 16 gauge steel. Door mtg. strips, 11 gauge steel.

Three-drawer Pedestal. Mounts on either side of desk frame. Telescoping slides with ball bearings. One movable divider per drawer. 20 gauge steel.

COMMANDER MODULAR WORK STATIONS

- ***Practical Design Combined with Contemporary Styling***
- ***Provides Maximum Efficiency and Flexiblity***

Designed for the versatile needs of electronic equipment housing or storage, plus other applications, these work stations are the ideal way to organize any work area. There are nine standard one-, two- or three-bay units, all with rear compartments. You've also got the option of utilizing several accessories, such as cabinets, three-drawer pedestals and shelves, to extend the variety of work station combinations. Ruggedly built to last under standard working conditions, these work stations are made of top-quality materials. Frame and pylons are 14 gauge steel; stuts are 11 gauge steel; top is particle board with wood grain finish. Field adjustable heights. Convenient cable access and excellent cable management. Cabinets meet E.I.A. dimensions and mounting specifications; rear compartment easily accommodates 19x21″ (48.26x53.34cm) E.I.A. equipment on mounting rail or shelves. Choice of colors, make selection from color code chart below.

WORK STATIONS

Stock No.	Mfr's Type	Description	EACH 1-2	EACH 3-4	EACH 5-Up
736Q9190	CD-16000	One-bay desk w/standard one-bay rear unit	441.40	419.35	397.25
736Q9191	CD-16001	One-bay desk w/deluxe one-bay rear unit	509.00	483.75	458.10
736Q9192	CD-16002	Two-bay desk w/standard one-bay rear unit plus cabinet	592.20	562.80	532.95
736Q9193	CD-16003	Two-bay desk w/deluxe one-bay rear unit plus cabinet	685.65	625.95	592.75
736Q9194	CD-16004	Two-bay desk w/deluxe two-bay rear unit	680.25	646.50	612.25
736Q9195	CD-16005	Three-bay desk w/standard one-bay rear unit & two cabinets	753.30	715.95	678.00
736Q9196	CD-16006	Three-bay desk w/deluxe one-bay rear unit & two cabinets	820.00	779.35	738.00
736Q9197	CD-16007	Three-bay desk w/deluxe two-bay rear unit and cabinet	845.05	803.15	760.55
736Q9198	CD-16008	Three-bay desk w/deluxe three-bay rear unit	881.85	835.15	793.70

OPTIONAL MODULES AND ACCESSORIES

Stock No.	Mfr's Type	Description	EACH 1-2	EACH 3-4	EACH 5-Up
736Q9199	CD-16009	Vertical drawer	82.10	78.05	73.90
736Q9200	CD-16010	Three drawer pedestal	137.90	131.05	131.05
736Q9201	CD-16011	Mounting rail	13.20	7.90	7.40
736Q9202	CD-16012	30″ (76.2cm) shelf	10.55	10.05	9.50
736Q9203	CD-16013	21″ (53.3cm) shelf	9.60	9.10	8.60
736Q9204	CD-16014	Divider panel	10.00	9.50	9.00
736Q9205	CD-16015	21″ (53.3cm) door	48.65	46.20	43.75
736Q9206	CD-16016	Perf. bottom panel	11.35	10.80	10.25

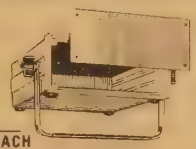
For Casters and Levelers, See Page 220.

COLOR CODE

GT=Gray Textured
GY=Lt. Gray Textured
GG=Dk. Gray Textured
GR=Gray Rinkletex
HG=Gray Hammertone
BT=Black Texture
BR=Black Rinkletex
EBL=Flat Black Enamel
TB=Tawny Brown
S=Sand Textured
PO=Primer
BY=Lt. Blue Textured
BB=Dk. Blue Textured
RB=Royal Blue Textured
WH=White Textured
GD=Gold Textured
FY=Flame Yellow
BO=Burnt Orange
FR=Fire Red
EG=Emerald Green

Enclosures, Cabinets, Racks and Rack Panels

ALUMINUM DESK-TOP ENCLOSURES



Ideal desk top or portable enclosures made of durable alum. with removable top and bottom. Carrying handle doubles as a tilting bail. Includes self-adhesive rubber feet and front panel. Fits .060 alum. accessory chassis or 1/16" PC boards. Mar-resistant, easy-to-clean Nextel finish. Two colors.

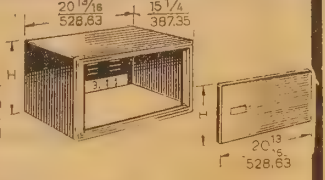
CABINET

Mfr's Type	Stock No. Blue/White	Stock No. Brown/White	H x W x D (In.)	Panel Space (In.)	Wt. (lbs.)	EACH 1-4	EACH 5-9	EACH 10-Up
TR-6100	736Q7645	736Q7647	3½ x 8 5/16 x 10¾	3¾ x 8 3/64	4½	77.00	69.30	61.60
TR-6101	736Q7650	736Q7655	5¼ x 8 5/16 x 13¼	5 x 8 3/64	5½	82.40	74.15	65.90
TR-6102	736Q7660	736Q7665	7 x 11 1/16 x 13¼	6¾ x 10 53/64	7	90.25	81.25	72.20
TR-6103	736Q7670	735Q7675	8 x 12 x 18¾	7¾ x 11¾	9½	97.45	87.70	77.95

CHASSIS

Mfr's Type	Stock No.	L x W x H (In)	Wt. (lbs.)	Fits Cabinet	EACH 1-4	EACH 5-9	EACH 10-Up
TRC-610	736-7680	10⅛ x 7¾ x 1¼	¾	TR-6100	10.38	6.25	5.55
TRC-611	736-7685	12⅝ x 7¾ x 1¾	1	TR-6101	10.88	6.55	5.80
TRC-612	736-7690	12⅝ x 10½ x 1¾	1¼	TR-6102	12.25	7.40	6.55
TRC-613	736-7695	18⅛ x 11 7/16 x 1¾	1¾	TR-6103	13.90	9.25	8.20

STYLIST HEAVY DUTY CABINETS



- Hold Up to 500 Pounds! • Meet E.I.A. Standards!
- Reinforced! • Made of Durable 16-Gauge Steel

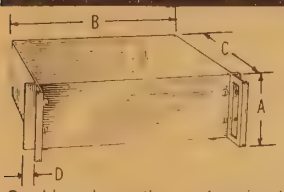
Square-cornered steel cabinets reinforced at corners. 16-gauge cold-rolled steel. Accept either 19" panels or cabinet doors. Self-supporting with an internal framework. Etched aluminum extrusion frame on front panel, self-adhesive rubber feet. In Royal Blue (RB) and Gray Hammertone (GH). Clear inside depth: 14 3/16"; overall width: 20 13/16"; overall depth: 15¼". Has .060 steel doors. 19" wide — inside depth 15/16". Rear panel has 1¾" high opening for cable accessories.

CABINETS

Mfr's Type	Stock No. GH	Stock No. RB	Overall Height	Panel Space	Wgt. Lbs.	EACH 1-4	EACH 5-9	EACH 10-Up
S-1640	736Q6400	736Q6405	8 13/16"	7"	26¾	94.00	84.60	75.20
S-1641	736Q6410	736Q6415	10 5/16"	8¾"	29	98.45	88.60	78.75
S-1642	736Q6420	736Q6425	12 5/16"	10½"	31	103.70	93.35	82.95
S-1643	736Q6428	736Q6430	14¼"	12¼"	33	107.95	97.15	86.35
S-1644	736Q6433	736Q6435	15 13/16"	14"	35¼	112.65	101.40	90.10
S-1645	736Q6440	736Q6445	17 5/16"	15¾"	37¼	124.90	112.40	99.90

DOORS

Mfr's Type	Stock No. GH	Stock No. RB	Height	Wgt. Lbs.	Fits Cabinet	EACH 1-4	EACH 5-9	EACH 10-Up
SD-540	736Q7030	736Q7035	7"	4¾	S-1640	18.70	16.85	14.95
SD-541	736Q7040	736Q7045	8¾"	5½	S-1641	20.40	18.05	16.05
SD-542	736Q7050	736Q7055	10½"	6¼	S-1642	23.05	18.85	16.75
SD-543	736Q7058	736Q7060	12¼"	7	S-1643	23.80	19.50	17.30
SD-544	736Q7063	736Q7065	14"	7¾	S-1644	25.35	20.75	18.45
SD-545	736Q7070	736Q7075	15¾"	8½	S-1645	26.85	21.95	19.50



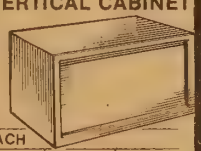
"VALU/LINE" HANDLE UNIT

Combines innovative engineering techniques with styling that is both classic and contemporary. Priced surprisingly low. May be used as an independent enclosure or in a standard E.I.A. 19" cabinet rack. Adhesive paper protective covering of the ⅛" brushed aluminum panels provides an excellent surface for indicating position when drilling or punching panel areas. Base, rear and top are .057" aluminum with smooth white enamel finish. Sides are ⅛" aluminum with white textured enamel. Completely assembled unit includes two separate detachable rack mounting brackets and rubber feet.

Mfr's Type	Dimensions in Inches A	B	C	D
HC-14101	3½	17	13	1
HC-14103	5¼	17	13	1
HC-14104	7	17	13	1
HC-14105	8¾	17	13	1
HC-14106	10½	17	13	1
HC-14107	10½	17	15	1

Stock No.	Mfr's Type	EACH 1-4	EACH 5-9	EACH 10-Up
736Q4451	HC-14101	89.20	80.30	71.35
736Q4453	HC-14103	92.00	82.80	73.60
736Q4454	HC-14104	95.55	86.90	77.25
736Q4455	HC-14105	101.20	91.10	80.95
736Q4456	HC-14106	105.80	95.20	84.65
736Q4457	HC-14107	110.40	99.35	88.30

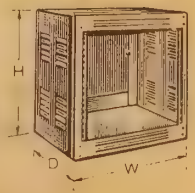
MULTI-PURPOSE FUTURA VERTICAL CABINET



Removable top, side; front panel flange-held (no screws). Body, rear panel 20-gauge steel; front panel vertical, 18-gauge. Rubber footed base. Chassis mounts to base, front rear panel. Dk. blue textured body, light blue panels. 8 lbs.

Stock No.	Type	Size (HWD) Inches	EACH 1-14	EACH 15-24	EACH 25-Up
736-4977	MD-1962	8x16x9	21.45	19.30	17.15

HEAVY-DUTY CABINET RACKS

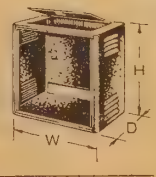


For use where more strength and depth is needed; clear inside depth of 16 1/16"; 22" wide (24" width available on special order). Hinged removable rear door. Louvered sides and 2½x17½" rear bottom vent. **HG=Gray Hammartone; BR=Black Rinkletex finish.**

Mfr's Type	Stock No. HG	Stock No. BR	Ht. (In.)	Panel Ht. (In.)	Wt., Lbs.	Price Code
CR-1736	736Q3082	736Q3080	24½	19¼	50	A
CR-1737	.....	736Q3090	31½	26¼	57	B
CR-1738	736Q3102	.....	40¼	35	70	C

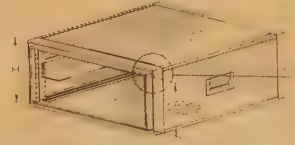
Price Code	EACH 1-9	EACH 10-14	EACH 15-19	EACH 20-Up
A	84.05	75.65	67.25	63.05
B	90.20	81.20	72.15	67.65
C	107.20	96.50	85.75	80.40

DELUXE CABINET RACKS



The "work-horse" of economy-type housings. This welded steel cabinet rack has contoured front uprights — recommended for use as an enclosure for instrumentation. Hinged top with flush lift handle. Clear inside depth. 14 13/16". **HG=Gray Hammartone finish.**

Type CR-	Stock No. HG	Height In.	Panel Space In.	Wt., Lbs.	EACH
1726	736Q3052	8 5/32	7	24	49.00
1741	736Q3132	10 5/16	8¾	28¼	51.95
1740	736Q3122	12 5/16	10½	31	58.35
1742	736Q3142	14 5/16	12¼	32	62.70
1739	736Q3112	15 13/16	14	35	81.50
1743	736Q3152	19 5/16	17½	40	83.50
1728	736Q3072	33 5/16	31½	58	98.30
1744	736Q3162	28 1/16	26¼	51	92.10
1727	736Q3062	22 13/16	21	43	89.50
1745	736Q3172	36 13/16	35	63	102.95



CLASSIC II CABINETS



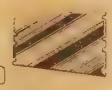
Combine rectilinear outlines with innovative features to meet critical engineering demands. Double rim 6063-T5 aluminum frame around front of cabinet. Sides, top and bottom are .060 aluminum. Front and rear mounting rails tapped 10-32 with W.E. spacing. Accept standard 19" panels. Panel-to-panel depth, 20 9/16". Heavy-duty aluminum handle at each end for convenient portability. Vinyl textured finish provides attractive appearance and extra durability. Chassis support is 16-gauge steel. Overall depth, 21 7/16". Royal Blue Textured. *Panel space.

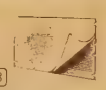
Type AGC-	Stock No. Royal Blue	Size In. Ht.	Size In. PS*	Wt. Lbs.	EACH 1-2	EACH 3-4	EACH 5-Up
9267	736Q0505	7 1/16	5 5/16	19	167.10	150.40	133.70
9268	736Q0508	8 3/16	7 1/16	20	171.60	154.45	137.30
9269	736Q0511	10 5/16	8 3/16	22	176.05	158.45	140.85
9270	736Q0514	12 5/16	10 5/16	23	176.70	159.05	141.35
9271	736Q0517	14 1/16	12 5/16	15	182.65	164.40	146.10
9272	736Q0581	15 13/16	14 1/16	26	186.90	168.20	149.50
9273	736Q0584	17 5/16	15 13/16	28	190.60	171.55	152.50
9274	736Q0587	19 5/16	17 5/16	29	194.65	175.20	155.50
9275	736Q0590	21 1/16	19 5/16	31	196.60	176.95	157.30
9276	736Q0593	22 13/16	21 1/16	32	199.65	179.70	159.70
9279	736Q0602	28 1/16	26 5/16	37	215.05	193.55	172.05
9280	736Q0605	29 13/16	28 1/16	38	219.45	197.50	175.55

DOORS FOR CLASSIC II CABINETS

Fit any rack or cabinet with 19" panel space. Made of ⅛" 505-H36 aluminum alloy. Plated flush type latch. Stop fits on one mounting rail; hinged door on other. Sand textured finish

Type AGD	Stock No. $	Ht. In.	Wt. Lbs.	EACH 1-4	EACH 5-9	EACH 10-Up
367	736Q0626	5¼	1¾	17.50	16.15	14.35
368	736Q0630	7	2¼	21.15	19.05	16.90
369	736Q0634	8¾	3	23.40	21.05	18.70
370	736Q0638	10½	3¼	25.40	22.85	20.30
371	736Q0642	12¼	3¾	27.30	24.55	21.85
372	736Q0646	14	4¼	27.80	25.00	22.25
373	736Q0650	15¾	4¾	31.40	28.25	25.10
374	736Q0654	17½	5¼	34.00	30.60	27.20
375	736Q0658	19¼	5¾	36.40	32.75	29.10
376	736Q0662	21	6¼	38.75	34.90	31.00
379	736Q0674	26¼	7¾	45.00	33.10	29.40
380	736Q0678	28	8¼	48.10	35.35	31.45





STANDARD ALUMINUM RACK PANELS

Ⓐ ⅛x19" aluminum panels have notched edges for standard W.E. spacing.

HOW TO ORDER

7 finishes. Add following digits in place of suffix "N" for color: 1=Black Rinkletex; 3=Gray Rinkletex; 5=Gray Hammertone; 2=Light Blue Textured; 4=Light Gray Textured; 7=White; 6=Sand.

Stock No.	Mfr's Type	Ht. In.	Wt. Lbs.	EACH 1-24	EACH 25-49	EACH 50-Up
736-511N	PA-1101	1¾	¼	5.12	3.40	3.05
736-512N	PA-1102	3½	¾	7.00	4.70	4.25
736-513N	PA-1103	5¼	1	9.12	6.10	5.50
736-514N	PA-1104	7	1¾	11.50	7.70	6.95
736-515N	PA-1105	8¾	2	13.00	8.70	7.85
736-516N	PA-1106	10½	2½	13.40	11.20	10.10
736-517N	PA-1107	12¼	2¾	15.40	12.85	11.55
736-518N	PA-1108	14	4	17.70	14.80	13.30
736-519N	PA-1109	15¾	3½	19.60	16.35	14.70
736-520N	PA-1110	17½	4	21.50	17.95	16.15
736-521N	PA-1111	19¼	4¼	23.40	19.55	17.60
736-534N	PA-1112	21	5	26.00	21.70	19.55

SURFACE-SHIELD RACK PANELS

Ⓑ ⅛" thick bright aluminum alloy rack panels in blemish-free mill finish. 19" wide.

Stock No.	Mfr's Type	Ht. In.	Wt. Lbs.	EACH 1-24	EACH 25-49	EACH 50-Up
736-7200	SFA-1831	1¾	¼	4.75	3.15	2.85
736-7201	SFA-1832	3½	¾	6.75	4.50	4.05
736-7202	SFA-1833	5¼	1	8.75	5.85	5.25
736-7203	SFA-1834	7	1¾	11.12	7.45	6.70
736-7204	SFA-1835	8¾	2	12.37	8.25	7.45
736-7205	SFA-1836	10½	2½	12.80	10.70	9.65
736-7206	SFA-1837	12¼	2¾	14.70	12.25	11.05
736-7207	SFA-1838	14	3	16.60	13.85	12.45
736-7208	SFA-1839	15¾	3½	18.80	15.70	14.15

Racks, Cabinets, Slides and Casters

DELUXE ENCLOSED RELAY RACKS



Suitable for use in a variety of lab, industrial and commercial applications. Doors have 2 snap-action catches; 16-ga. steel with 7/64" panel supports. Casters can be mounted on base. For 19" panels. Gray Hammertone only.

Stock No. 736Q	Mfr's Type CR-	Overall Size Inches	Panel Ht.	Wt. Lbs.	EACH 1-9*
-3182	1771	47 1/16x22x17 1/8	42	92	135.50
-3192	1772	66 1/16x22x17 1/8	61 1/4	115	169.75
-3222	1780	75 1/16x22x17 1/8	70	125	181.95
-3262	2075	75 1/16x22x22 1/8	70	147	194.85

*Contact Allied for higher quantity prices.

DESK-TYPE RELAY RACKS



Have chassis-type base. Supporting angles assure steadiness. Mfr's Type RR-1248: 24x20 3/8x12" overall, 21" panel ht.; Type RR-1249: 31x20 3/8x12" overall, 28" panel ht. **In Black Rinkletex or Gray Hammertone.**

Gray Hammertone	Black Rinkletex	Mfr's Type	Wt. Lbs.	EACH 1-14	15-24	25-Up
736U6200	736X6301	RR-1248	15	27.15	24.45	21.70
736-6203	736X6311	RR-1249	18	30.75	27.70	24.60

SWIVEL TRUCK CASTERS



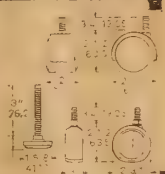
TYPE RC-7756. Rugged ball-bearing casters designed for deluxe-type relay racks. Support up to 400 lbs. distributed on four casters. Rugged, long-wearing wheels made from high-grade hard rubber. Ht., 2 5/8". 1 3/4 lbs. *Pkg. 4.*

736-6000. 1-4 Pkgs. ..... Per Pkg. 12.50
5-11 ... Per Pkg. 8.40 12-Up ... Per Pkg. 7.60

TYPE RC-7758. Heavy-duty casters with very sturdy construction for heavy loads. For use with Mfr's Series 60 cabinets. Ball bearing wheels are hard tread composition for longer wear, self-lubricating for convenience. Wheel dia., 2 1/2", Height, 3 1/4". Wt. 6 lbs. *Pkg. of 4.*

736-6001. 1-4 Pkgs. ..... Per Pkg. 24.00
5-11 Pkgs. ... Per Pkg. 22.00 12-Up Pkgs. ... Per Pkg. 19.80

CASTER AND LEVELERS

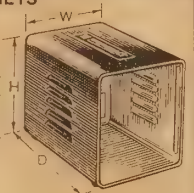


RC-7760: Black nylon wheel and hood with steel pin; 3/8-16 thread. 110 lb. load rating. RL-7765: Black nylon base. Threaded 3/8-16 steel pin. 110 lb. load rating. RL-7766 and RL-7767: Steel cap and stem with 3/8-16 thread. Nickel plated. 200 lb. load rating. RL-7766, rubber base, RL-7767 white nylon base. Sold Per Pair.

For Commander and Concord Series

Stock No.	Mfr's Type	EACH 1-24	25-49	50-Up
736Q6002	RC7760 (Caster)	4.85	4.35	3.90
736Q6005	RC7765 (Leveler)	2.35	2.10	1.90
736Q6006	RC7766 (Leveler)	1.65	1.50	1.35
736Q6007	RC7767 (Leveler)	1.65	1.50	1.35

"PORTACAB" CABINETS



Sturdy .050" alum. one-piece body with contoured corners and louvers pointed inward for tight side-by-side installation. Easy access to interior thru opening (table below) in welded back. .062" alum. front panel recessed 1/2" with mounting flanges 1/2" wide. 4 rubber feet. "Use With" column in table below gives recommended Mfr's chassis. Gray Hammertone finish.

DIMENSIONS

Mfr's Type	DxWxH Inches	Opening Inches	Louvers Per Side	Wt. Lbs
WA-1540	8x6 1/16x8	2x4 1/2	1 Set	2
WA-1541	12x8 1/16x8	2x6 1/2	2 Sets	3 1/2
WA-1542	8x10 1/16x8	2x8 1/2	1 Set	3 3/4
WA-1543	18x11 1/16x11	2x9 1/2	3 Sets	5 1/2
WA-1544	18x14 7/16x12	2x12 1/2	3 Sets	8

ORDERING INFORMATION

Stock No	Mfr's Type	Use With Chassis	EACH 1-24	25-49	50-Up
736-8210	WA-1540	AC 402	19.55	17.60	15.65
736-8215	WA 1541	AC 407	26.80	24.10	21.45
736 8220	WA 1542	AC 410	22.80	20.50	18.25
736-8225	WA-1543	AC 416	33.15	29.85	26.50
736-8230	WA 1544	AC 420	39.85	35.85	31.90

CABINET RACKS





Shipped completely assembled, ready for component installation. Takes standard 19" panels. Side panels and door are 18 gauge steel; top and bottom 16 gauge steel; uprights, 14 gauge steel. Double rimmed brushed aluminum extrusion. Width and depth are 22". FINISHES: **Specify either gray textured (GT) or royal blue (RB).**

Stock No.	Mfr's Type	Panel Space	Height	Wt. Lbs.	EACH 1-2
736Q9402	AGR9302	42"	47 5/16"	126	269.10
736Q9403	AGR9403	52 1/2"	57 13/16"	146	298.90
736Q9404	AGR9304	61 1/4"	66 9/16"	162	332.20
736Q9406	AGR9406	77"	82 5/16"	181	380.40

REQUEST LARGER QUANTITY PRICING

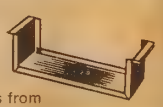
BALL-BEARING CHASSIS SLIDES



Press-formed main members; chrome-carbon-steel ball bearings. .180x.210-in. Slide mounting holes.

Stock No.	Mfr's Type AS-	Lgth.	Travel	Load Rating Lbs.	Wt. Lbs.	PER PAIR 1-4	5-9	10-Up
736-0900	5000	12"	9"	140	1 3/4	18.50	15.10	13.45
736-0901	5001	16"	12"	120	2	21.35	17.50	15.55
736X0922	5002	20"	15"	.92	2 1/2	23.45	19.15	17.05
736X0926	5022	20"	21"	142	5 1/4	53.10	43.00	38.25

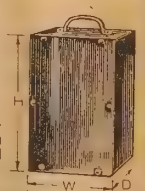
PANEL-MOUNTING CHASSIS



Use where depth is limited or for access from front. .060" aluminum, reinforced corners, with flanges. Natural finish. Fits 19" panel space.

Stock No.	Mfr's Type	Ht. In.	Wt. Lbs.	EACH 1-24	25-49	50-Up
736-2277	CB-1370	1 3/4	3/4	8.12	4.90	4.35
736-2278	CB-1371	3 1/2	1 1/4	9.25	5.60	4.95
736-2279	CB-1372	5 1/4	1 1/2	10.50	6.30	5.60
736-2280	CB-1373	7	2	11.55	6.95	6.15

PORTABLE ALUMINUM AND STEEL CARRYING CASES



Ideal for portable transceivers, test instruments, etc. Handle attaches to top or side. Panels removable to provide access to interior. Available in welded steel for maximum strength or in aluminum for light weight. Rigid construction assures proper support for components. **Steel cabinets available in Gray Hammertone only. Aluminum cabinets available in Gray Hammertone or Natural finish** and weigh less than 2 lbs. Av. shpg. wt. 3 lbs.

GRAY HAMMERTONE STEEL CASES

Stock No.	Type CC-	Size Inches HxWxD	Wt. Lbs.	EACH 1-24	25-49	50-Up
736-2505	1095	9x6x5	3 1/4	11.50	6.95	6.15
736-2503	1093	9x15x7	5	18.00	13.55	12.05

NATURAL FINISH ALUMINUM CASES

Stock No.	Type ACC-	Size HxWxD	EACH 1-24	25-49	50-Up
736-0304	2095	9x6x5	12.37	8.25	7.45

GRAY HAMMERTONE ALUMINUM CASE

Stock No.	Type ACC-	Size Inches HxWxD	EACH 1-24	25-49	50-Up
736-0307	2096	12x7x6	14.55	13.10	11.65

OPEN TYPE RELAY RACKS



RR-1363, 1264, 1364, 1366. Uprights 7/64" steel channels 3" deep. Has chassis type base. Takes RC7756 swivel truck casters, available on this page. **RR-1369** is extra sturdy with 8" deep welded U member. Panel mounting rails tapped 10-32. 12-ga. steel. Chassis type base will accept casters. Racks may be bolted together.

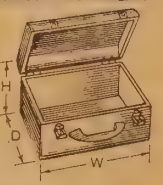
Mfr's Type RR-	Stock No. BR	HG	Panel Space Inches	Overall Ht.xW. Inches	Wt. Lbs.	EACH 1-9	10-Up
1363	.....	Q6352	36 3/4x19	40 7/8x19 7/8	36	52.10	46.90
1264	736Q6330	Q6332	66 1/2x19	70 7/8x19 7/8	46	61.85	55.65
1364	736Q6360	Q6362	71 3/4x19	75 7/8x19 7/8	48	65.05	58.55
1366	736Q6370	.	77x19	81 7/8x21	49	67.90	61.10
1369	.....	Q6382	77x19	80 7/8x21	104	138.10	124.30

CHASSIS MOUNTING BRACKETS

Durable, heavy-gauge steel brackets accept chassis 3" high. Black enamel finish. Sold in pairs.

Stock No.	Mfr's Type	Ht. In.	Depth In.	Wt. Lbs.	PER PAIR 1-24	25-49	50-Up
736-4503	MB-458	6 1/2	8	1 1/4	5.25	3.50	3.15
736-4505	MB-460	6 1/2	13	2 1/2	6.37	4.25	3.85

"TRANSICASE" CASES



Portable Instrument cases of .040" thick alum. Flush-fitting alum. panel; lid on 2 slide-off hinges. 1 15/32" clearance from panel top. Rubber feet. Dark blue finish. All hardware is brightly nickel-plated. *Space below panel.

Stock No.	Type TC-	Size H x W x D Inches	Panel Size Inches	*	Wt. Lbs.	Each
736-7601	300	6x10 1/16x7	8 15/16x5 15/16	4 13/32	4 1/2	46.00
736-7621	302	7 1/2x13x9	11 7/8x7 15/16	5 29/32	8	53.10

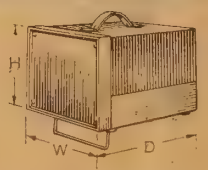
TRIANGULAR MOUNTING BRACKETS



Gives rigid support for panel, chassis and shelves. Heavy-gauge steel. Black enamel finish.

Stock	Mfr's Type	Ht. In.	Depth In.	Wt. Lbs.	PER PAIR 1-24	25-49	50-Up
736-4506	MB-1266	5	5	1	4.50	3.00	2.70
736-4507	MB-1267	7	7	1	5.50	3.65	3.30
736-4508	MB-1268	9	9	1 1/2	5.63	3.40	3.00

SHOWCASES



These sleek, highly functional units can be used as desktop instrument cases, in systems, in racks, or as a portable enclosure. Top, sides and bottom of each sturdy enclosure is .050 aluminum; front panel is .090, rear panel is .050 aluminum. Strong, flexible handles are recessed and secured firmly into the top for safe handling. Ventilation slots under handle. Side gussets provide additional strength. Depth is 11" except *, which is 15". FINISHES: **Specify either Black Textured (BT) and smooth white or Royal Blue Textured (RB) and smooth white.**

Stock No.	Mfr's Type BB-	Width Inches	Height Inches	Weight lbs.	EACH 1-14
736Q9500	1800	5 1/2	6 7/16	3 3/4	56.45
736Q9501	1801	8 5/16	6 7/16	4	58.80
736Q9502	18Q2	5 1/2	8 1/16	3 3/4	58.10
736Q9503	1803	8 5/16	8 1/16	5 1/2	60.85
736Q9504	1804	11 1/16	8 1/16	5 3/4	66.40
736Q9505	1805	5 1/2	9 15/16	4 3/4	61.60
736Q9506	1806	8 5/16	9 15/16	5 1/4	64.20
736Q9507	1807*	8 5/16	9 15/16	6 1/4	68.65
736Q9508	1808	11 1/16	9 15/16	6	66.80
736Q9509	1809*	11 1/16	9 15/16	7	70.80

CONTACT ALLIED FOR LARGER QUANTITY PRICING

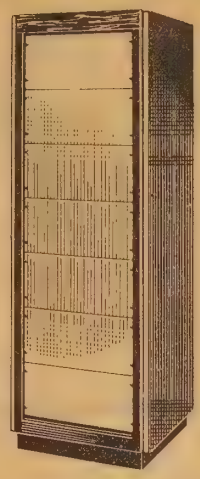
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Cabinet Racks, Enclosures and Accessories

CABINET RACKS

NEW!





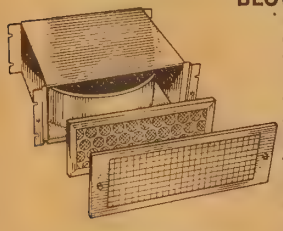
UPRIGHT CABINET RACKS

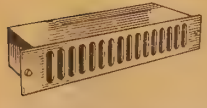
Stock No.	Mfr's Type	Outside Hght. In.	Outside Hght. cm	Panel Space In.	Panel Space cm	Top Opening In.	Top Opening cm	Weight Lbs.	Weight kg	EACH 1-2	EACH 3-4	EACH 5-Up
736Q9300	CR-6200	29⅝	75.24	21	53.34	18⅛x17	46.5x43.1	118	53.5	242.20	218.00	196.20
736Q9301	CR-6201	40⅛	101.9	31½	80.01	18⅛x17	46.5x43.1	156	70.8	265.80	239.20	215.30
736Q9302	CR16202	50⅜	128.5	42	106.6	18⅛x17	46.5x43.1	173	78.5	271.10	244.00	219.60
736Q9303	CR16203	61⅛	155.2	52½	133.3	18⅛x17	46.5x43.1	197	89.4	337.20	303.50	273.15
736Q9304	CR-16204	69⅞	177.4	61¼	155.5	18⅛x17	46.5x43.1	220	99.8	360.30	325.25	291.85
736Q9305	CR-16205	78⅝	199.7	70	177.8	18⅛x17	46.5x43.1	235	106.6	396.85	357.15	321.45
736Q9306	CR-16206	87⅜	221.9	78¾	200	18⅛x17	46.5x43.1	265	120.3	414.20	372.80	335.50

Designed primarily as a companion piece for the modular work station, seen esewhere in this section, these cabinet racks are the ideal way to store or house electronic equipment, or anything which needs organizing. Contemporary styling allows cabinet racks to harmonize with and enhance all installations. Above the front panel, an inset — available in a variety of colors — complements the subtle dimension of the etched, clear anodized aluminum extrusion framing the cabinet. Accommodate standard 19″ panels. Frame is all-welded constructed of 14 gauge steel; U-braces are welded to sides for assured strength and rigidity. Sides and door are of 18 gauge steel. Panel mounting rails are 12 gauge steel tapped for 10-32. Cabinets are accessible from front and rear for easy installation of components and maintenance.

See Page 218 for selection of colors.

BLOWERS FOR CABINETS





Model B-25A. Two-speed motor delivers turbulent air distribution to eliminate hot spots in cabinet. Recommended when a modest back pressure exists. 1420/1075 RPM, 375/200 watt shaded pole motor. Permanently lubricated ball bearings. UL approved. 24″, 3-wire power cord. Panel Space: 5¼x19″. Depth: 14½″. Air C.F.M.: High 350, Low 160, **Use with filter type BF-26.** Wt. 28 lbs.

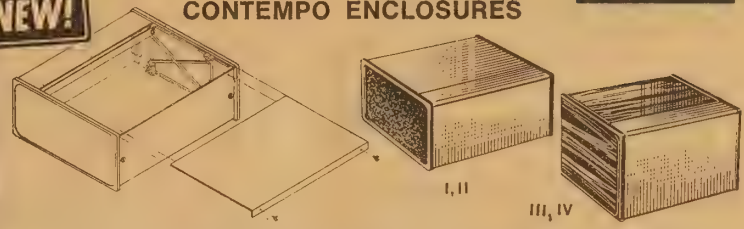
736-1110. Model B-25A Blower .....**Each 187.00**
736-1120. BF-26 Filter .....**Each 4.75**

Model B-50. Requires only 3½″ of panel height. Low audible noise level. Air stream delivered vertically through a 12¼″ wide opening. Air velocity and pressure cool densely packed electronic equipment. 3150 RPM shaded pole motor. 80 watts. UL approved. 24″, 3-wire power cord. Permanently lubricated bearings. Panel Space: 3½″x19″. Depth: 6⅜″. Air C.F.M.: High 150. **Use with filter type BF-24.** Wt. 11½ lbs.

736-1130. Model B-50 Blower .....**Each 151.66**
736-1100. BF-24 Filter .....**Each 4.12**

NEW!

CONTEMPO ENCLOSURES



The clean, contemporary styling of these versatile and highly functional enclosures encourages any number of applications. Available with either woodgrain and eggshell or black pebble and smooth gray finish. Enclosure body is made from .062″ aluminum. Molded .160″ cycolac plastic end panels are attached to the aluminum wrap-around body. Aluminum top slides into grooves in end panels and is secured with two screws. Additional top support is provided by a tie-bar secured to end panels. All hardware is included. Letter "B" in mfr's type number indicates black end panels with gray body; Letter "W" indicates woodgrain finish on end panels and body with eggshell body, front and rear panels.

MODEL I. Inside dimensions are given, to obtain outside dimensions add 7/16″ (11.11mm) to height, ¼″ (6.35mm) to width and ⅜″ (9.52mm) to depth.

Stock No.	Mfr's Type	Height In.	Height mm	Width In.	Width mm	Depth In.	Depth mm	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
736-1650	JB-1650	2⅛	53.9	3⅜	92.0	5⅝	141.2	7.10	6.45	6.10	5.80
736-1651	JB-1651	2⅛	53.9	4 11/16	119.0	5⅝	141.2	7.60	6.90	6.55	6.20
736-1652	JB-1652	2⅛	53.9	5 11/16	144.4	5⅝	141.2	8.05	7.30	6.95	6.55
736-1653	JB-1653	2⅛	53.9	6 11/16	169.8	5⅝	141.2	8.55	7.75	7.35	7.00
736-1654	JB-1654	2⅛	53.9	7¾	196.8	5⅝	141.2	9.55	8.70	8.30	7.85
736-1655	JB-1655	2⅛	53.9	9⅞	250.8	5⅝	141.2	12.15	11.05	10.50	9.95
736-1700	JW-3200	2⅛	53.9	3⅝	92.0	5⅝	141.2	7.60	6.90	6.55	6.20
736-1701	JW-3201	2⅛	53.9	4 11/16	119.0	5⅝	141.2	8.05	7.30	6.90	6.55
736-1702	JW-3202	2⅛	53.9	5 11/16	144.4	5⅝	141.2	8.50	7.75	7.35	7.00
736-1703	JW-3203	2⅛	53.9	6 11/16	169.8	5⅝	141.2	9.55	8.70	8.25	7.85
736-1704	JW-3204	2⅛	53.9	7¾	196.8	5⅝	141.2	10.75	9.75	9.25	8.80
736-1705	JW-3205	2⅛	53.9	9⅞	250.8	5⅝	141.2	13.85	12.60	11.95	11.35

MODEL II. Inside dimensions are given, to obtain outside dimensions add ⅜″ (9.52mm) to height, ¼″ (6.35mm) to width and 5/16″ (7.93mm) to depth.

Stock No.	Mfr's Type	Height In.	Height mm	Width In.	Width mm	Depth In.	Depth mm	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
736-1661	LB-1661	2 5/16	74.61	4 11/16	119.0	6 11/16	296.8	8.05	7.30	6.90	6.55
736-1664	LB-1664	2 5/16	74.61	7¾	196.8	6 11/16	296.8	11.40	10.35	9.80	9.30
736-1665	LB-1665	2 5/16	74.61	9⅞	250.8	6 11/16	296.8	14.30	13.00	12.35	11.70
736-1711	LW-3211	2 5/16	74.61	4 11/16	119.0	6 11/16	296.8	8.85	8.05	7.65	7.25
736-1714	LW-3214	2 5/16	74.61	7¾	196.8	6 11/16	296.8	13.10	11.95	11.35	10.75

MODEL III. Inside dimensions are given, to obtain outside dimensions add ⅜″ (9.52mm) to height, ¼″ (6.35mm) to width and ¼″ (6.35mm) to depth.

Stock No.	Mfr's Type	Height In.	Height mm	Width In.	Width mm	Depth In.	Depth mm	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
736-1671	MB-1671	4 3/16	106.3	5¾	146.0	6 5/16	160.0	8.75	7.95	7.50	7.15
736-1672	M3-1672	4 3/16	106.3	6¾	171.4	6 5/16	160.3	10.05	9.15	8.70	8.25
736-1674	MB-1674	4 3/16	106.3	9 15/16	252.4	6 5/16	160.3	14.30	13.00	12.35	11.70
736-1720	MW-3220	4 3/16	106.3	4¾	120.6	6 5/16	160.3	8.75	7.30	6.90	6.55
736-1721	MW-3221	4 3/16	106.3	5¾	146.0	6 5/16	160.3	10.05	9.15	8.70	8.25
736-1722	MW-3222	4 3/16	106.3	6¾	171.4	6 5/16	160.3	11.40	10.35	9.80	9.30
736-1723	MW-3223	4 3/16	106.3	7 13/16	198.4	6 5/16	160.3	13.05	11.85	11.25	10.65
736-1724	MW-3224	4 3/16	106.3	9 15/16	252.4	6 5/16	160.3	15.70	14.25	13.55	12.85
736-1725	MW-3225	4 3/16	106.3	11 15/16	303.2	6 5/16	160.3	18.75	17.05	16.20	15.35

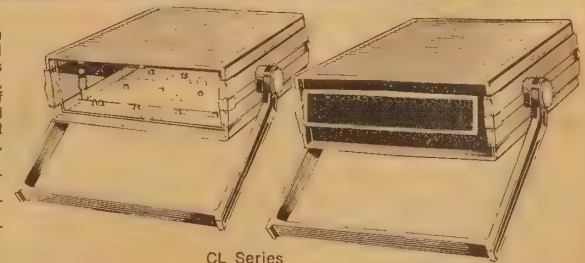
MODEL IV. Inside dimensions are given, to obtain outside dimensions add ⅜″ (9.52mm) to height, ¼″ (6.35mm) to width and ¼″ (6.35mm) to depth.

Stock No.	Mfr's Type	Height In.	Height mm	Width In.	Width mm	Depth In.	Depth mm	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
736-1681	DB-1681	4 3/16	106.3	9¾	247.5	10 1/32	259.5	21.55	19.60	17.65	15.70
736-1730	DW-3230	4 3/16	106.3	7¾	196.8	10 1/32	259.5	21.55	19.60	17.65	15.70
736-1731	DW-3231	4 3/16	106.3	9¾	247.5	10 1/32	259.5	23.60	21.45	19.30	17.15
736-1733	DW-3233	4 3/16	106.3	12¾	349.2	10 1/32	259.5	27.45	26.05	24.70	21.90

INSTRUMENT CASES

Contemporary styled case, easy-to-complete assembly. CH Series features telescoping side panels which allow panel heights from 2″ to 3″ in ¼″ increments with use of supplied spacers. The case has built-in vertical card guides at eleven positions and a horizontal card slide with nine positions. A rail adapter for chassis mounts is also provided. The top and bottom have a matrix of sixteen mounting bosses. A unique six-position, spring-detented handle allows instruments to be easily carried as well as conveniently stationed. Molded of high-impact ABS plastic. Gray case, black handle includes front and rear panels which can be drilled and painted. All hardware for assembly, including feet, is provided. CL Series is similar to the CH Series, except it is expandable from 4″ to 5″ in ½″ increments. Is supplied with tilt stand in place of spring-detented handle.
*Weight empty with panel, feet, hardware and handle.

Stock No.	Mfr's Type	Width In.	Width mm	Depth In.	Depth mm	Panel Hght. In.	Panel Hght. mm	Weight* Lbs.	Weight* kg	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50-Up
508-1000	CH	8½	215	9¼	234	2-3	50.8-76.2	1.7	.77	19.95	17.95	16.95	13.95
508-2000	CL	12½	317	11⅝	295	4-5	101.6-127	2.8	1.27	45.95	38.95	35.95	33.95

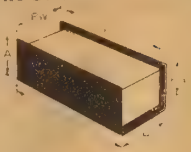


CL Series

Top Quality Cabinets and Cases

ALUMINUM LINEAR UNIT

Reliable, inexpensive way to house electronic sub-systems and instrumentation. One-piece cover removes easily for quick access to interior. No visible fasteners on panel area. Frame ⅛" alum. with black texture finish; cover .057 alum. with smooth enamel finish. Comes with non-skid rubber feet.



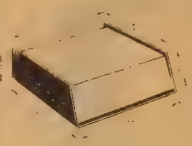
Mfr's. Type	Dimensions in Inches					
	A	B	C	PW	PH	PD
*RC-11100	3¼	5	10	4¾	2⅞	9½
RC-11101	8	12	10	11¾	7⅝	9½

Stock No.	Mfr's Type	EACH		
		1-24	25-34	35-Up
736-6024	*RC-11100	17.15	15.15	13.50
736-6025	RC-11101	37.00	33.35	29.65

*Single knockout only — centered.

ALUMINUM SLOPE UNIT

Offers excellent visibility of panel mounted components. One-piece cover removes easily for quick access to interior. No visible fasteners on panel. Frame ⅛" alum. with black texture finish; cover .057 alum. with smooth white enamel finish. With non-skid rubber feet. SC-12100; 1 knockout centered.

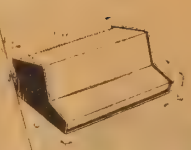


Mfr's Type	Dimensions in Inches					
	A	B	PW	D	E	F
SC-12100	5	5	4¾	3⅝₄	3⅞	4⅛
SC-12101	12	10	11¾	8⅞₁₆	2⅞	3⅛₁₆

Stock No.	Mfr's Type	EACH		
		1-24	25-34	35-Up
736-7000	SC-12100	11.65	10.30	9.15
736R7001	SC-12101	23.80	21.40	19.05

"COMPUCAB" KEYBOARD UNIT

Adaptable to many types of instrumentations. Install the gamut of components and accessories to meet specialized requirements. No visible fasteners. Frame ⅛" alum. with black texture finish; one-piece, easily removable cover .057 alum. with white enamel finish. Type SC-13100 does not have removable back panel.

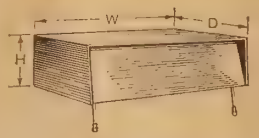


Mfr's Type	Dimensions in Inches					
	A	B	C	W	E	F
SC-13100	5¹¹⁄₃₂	10	8¹¹⁄₁₆	9¼	1⅞	4³⁄₃₂
SC-13101	9⁶¹⁄₆₄	14	10¾	13¼	3	5

Stock No.	Mfr's Type	EACH		
		1-5	6-9	10-Up
736R7025	SC-13100	25.65	23.10	20.50
736R7026	SC-13101	52.20	47.00	41.75

TILT-A-VIEW CABINETS

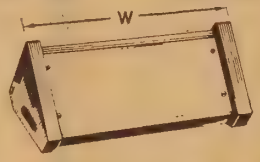
Present selective angles of viewing for accurate reading of meters, dials and recorders. Viewpoints are obtained with the slanted front face and vertical rear face. The 2" detachable legs allow changing the position of the cabinet to a desired angle. Two-piece 16-gauge steel construction. Lower and upper portions of cabinet fastened with sheet metal screws. Gray textured body with sand front and rear panels.



Stock No.	Mfr's Type	Size Ins. HxWxD	Wt. Lbs.	EACH		
				1-14	15-24	25-Up
736X7700	TV-2155	4½x15x10	7	17.35	15.60	13.90
736X7701	TV-2156	6½x16x12	12½	20.30	18.25	16.25
736X7702	TV-2157	8½x17x14	17	17.65	29.50	26.55

MARK-T CABINETS

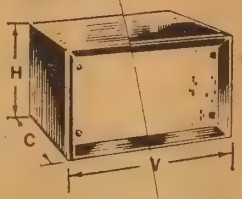
Angle of panel and door allow comfortable viewing of components. All welded 16-gauge steel construction. Removable front panel and hinged door. Camaction, self-adjusting spring latch holds door securely against frame. Recessed safety-shielded carrying handles. Gray textured body with Light Gray panel and door for smart appearance.



Stock No.	Mfr's Type	Width In.	Panel Size In.	Wt. Lbs.	EACH		
					1-14	15-24	25-Up
736-5100	MT-214	16	5¾x14	9	59.35	53.40	47.50

SHADOW CABINETS

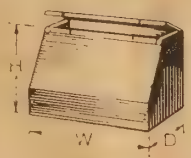
All-steel equipment cabinets with front panels recessed one inch. Two-piece bodies are made of 18-gauge steel and front and rear panels are of 16-gauge steel. Bottom, front and rear panels are each attached by four self-tapping screws. All are equipped with four rubber feet. Accept Mfr's chassis as listed in table. Finish is gray hammertone.



Stock No.	Mfr's Type	Size Inches HxWxD	Accepts Chassis	Wt. Lbs.	EACH	
					1-24	5-Up
736-6700	SB2140	8x14¾x10	AC-424	11½	20.95	18.85
736-6701	SB2141	7½x13¼x9	AC-408	9¼	18.10	16.30
736-6702	SB2142	9½x17x11	CB-666	15¼	27.70	24.95
736-6703	SB2143	6x15½x9	AC-409	9½	17.20	15.50

SLOPING PANEL CABINETS

Hinged tops, removable front panel. Fit following size chassis: C-1584, 7×6×2"; C-1585, 7×8×2"; C-1586, 7×10×2"; C-1587, 7×7×2"; C-1588, 7×9×2"; C-1892, 8×12×2½"; C-1893, 10×17×3"; C-1894, 7×13×2"; C-1896, 7×17×3". **BR: Black Rinkletex; GH: Gray Hammertone.**



Mfr's Type	Stock No.		Size Inches HxWxD	Wt. Lbs.	EACH	
	BR	GH			1-9	10-Up
C-1584	736-1847	736-1855	6½x7¹⁵⁄₁₆x7⁷⁷⁄₃₂	2½	13.75	9.20
C-1585	.....	736-1865	6½x9¹⁵⁄₁₆x7⁷⁄₃₂	3	12.10	10.10
C-1586	.....	736-1875	6½x11¹³⁄₁₆x7⁵⁄₃₂	3½	14.50	12.10
C-1892	.....	736-1935	8x13¹³⁄₁₆x8¹³⁄₃₂	5¼	15.70	14.15
C-1893	736-1937	736-1945	10x18¹³⁄₁₆x10¹³⁄₃₂	8½	20.35	18.30
C-1587	.....	736-1885	8x8¹⁵⁄₁₆x7¹⁵⁄₁₆	2¾	13.90	11.60
C-1588	.....	736-1895	8x10¹³⁄₁₆x8	3¼	16.10	13.45
C-1894	.....	736-1955	8x14¹³⁄₁₆x8	4	16.70	12.55
C-1896	.....	736-1965	9x18¹³⁄₁₆x8⁵⁄₃₂	7	19.85	17.85

UNIVERSAL SLOPING-PANEL CABINETS

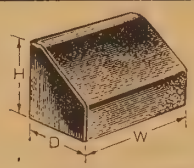
Mighty handy for control boxes, mike mixers, other related uses. One-piece detachable back and side attached with 4 screws. Wts. ... alum. ¾ lb. max.; steel 1⅛ lbs. max.

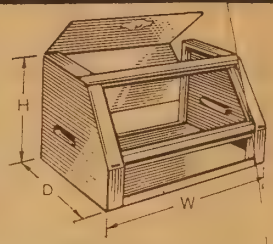
ALUMINUM

Stock No.	Mfr's. Type	Width In.	Shpg. Wt. (lbs.)	EACH			
				1-9	10-24	25-49	50-Up
736-0260	AC-1610	4	½	6.87	4.60	4.15	3.70
736-0261	AC-1611	5	½	6.75	4.50	4.05	3.60
736-0262	AC-1612	6	¾	7.37	4.95	4.45	3.95
736-0263	AC-1613	7	¾	8.12	5.45	4.90	4.35

STEEL

Stock No.	Mfr's. Type	Width In.	Shpg. Wt. (lbs.)	EACH			
				1-24	25-49	50-99	100-Up
736-1908	C-1608	6	1⅛	6.62	4.40	3.95	3.50
736-1909	C-1609	7	1⅛	7.75	5.20	4.70	4.15

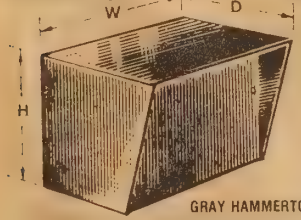




SLOPING PANEL PRESTIGE CABINET

Practical, attractive cabinet with perforated top which opens completely and removable panel trim bar to permit removal of panels from chassis. Panels st'd. 19" with safety shielded panel slots for carrying handles. Gray Hammertone finish.

Stock No.	Mfr's. Type	Height x Depth Inches	Panel Space Inches	EACH		
				1-14	15-24	25-Up
736-1815	C-1557	14¾x16⅛	10½	89.50	80.55	71.60



COWL-TYPE MINIBOXES

Projecting cover on this enclosure reduces glare on front panel from overhead light source. It also supplies protection for controls and dials. Cover has two box braces to which bottom is attached with sheet metal screws. Made of .040 aluminum alloy. Available in either natural aluminum or Gray Hammertone finish. See tables below.

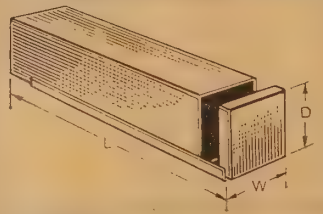
GRAY HAMMERTONE

Stock No.	Mfr's Type	Size Inches HxWxD	Wt., Lbs.	EACH		
				1-49	50-99	100-Up
736-6900	SC-2130	6x10x7	1¾	13.95	12.55	11.15
736-6901	SC-2131	7x12x8	2	15.30	13.75	12.25
736-6902	SC-2132	3x8x5	1	12.00	8.00	7.20
736-6903	SC-2133	5x5x5	¾	12.37	7.45	6.60

NATURAL ALUMINUM

Stock No.	Mfr's Type	Size Inches HxWxD	Wt., Lbs.	EACH		
				1-49	50-99	100-Up
736-6904	SC-3030	6x10x7	1¾	12.10	9.10	8.10
736-6905	SC-3031	7x12x8	2	13.10	9.85	8.75
736-6906	SC-3032	3x8x5	1	8.62	5.20	4.60
736-6907	SC-3033	5x5x5	¾	9.25	5.60	4.95

MINISLIDES



Allow easy access to interior. Base may be mounted in any position in rack cabinet. Fabrication of .050 aluminum. Assemble with 4 self-tapping screws.

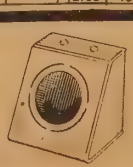
GRAY HAMMERTONE

Stock No.	Mfr's Type	Size Inches LxWxD	Wt., Lbs.	EACH		
				1-49	50-99	100-Up
736-5000	MS-2150	13x3⅛x2⅝	1	12.50	9.60	8.65
736-5002	MS-2152	17x3⅛x2⅝	1¼	12.50	10.45	9.40

UNIVERSAL METER CASES

Sloping-front meter housings. Panel cut for 2" meters; knockout ring enlarges hole for 3" meters. Case top has two ⅜" knockouts for mounting terminal posts or feed through insulators. Type CMA1930 accepts small components as well as meter. *Steel; †aluminum. Use aluminum case to minimize magnetic field. In light gray hammertone.

Stock No.	Mfr's Type	Size, In. HxWxD	Wt. Lbs.	EACH			
				1-24	25-49	50-99	100-Up
736-2901	CM1935*	4¼x4x4¹⁄₁₆	¾	5.50	3.65	3.30	2.90
736-2903	CMA1936†	4¼x4x4¹⁄₁₆	¾	6.50	4.36	3.90	3.50
736-2902	CMA1930†	4¼x6x4¹⁄₁₆	½	10.75	7.20	6.50	5.75

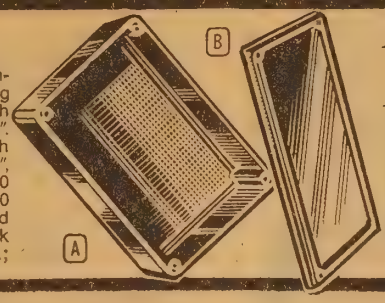


Write, Wire or Phone Allied Electronics for Larger Quantity Prices

Chassis Bases, Cabinets, and Cases

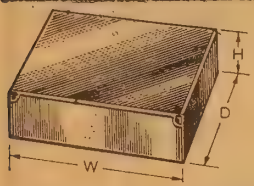
PLASTIC CASES AND PANELS

Molded plastic cases (Figure A) and matching plastic panels (Figure B) for mounting test equipment . . . Meters fit into cases with flanges. Cases accept sizes up to 4⅝x4$^{3}/_{16}$". Cases have recessed corner bosses — flush mounting with cover. All cases require ⅛", No. 6 self-tapping screws, except Type 220 which requires 4-36x½" screws and Type 280 which requires (6) 6-32 screws. Walls and covers of cases are made of firm ⅛" thick plastic. Shpg. weight: Cases, 1½ lbs.; Panels, 1 lb.



Stock No.	Mfr's Type	Fig.	Size In	Size MM	EACH 1-24	EACH 25-49	EACH 50-249	EACH 250-Up
543R0220	220	A	4x2$^{7}/_{8}$x1$^{9}/_{16}$	101.60x73.03x39.69	.83	.66	.55	.50
543R0230	230	A	5x4$^{1}/_{4}$x1$^{3}/_{4}$	127.00x107.95x44.45	1.28	1.02	.85	.77
543R0240	240	A	6$^{1}/_{4}$x3$^{3}/_{4}$x2	158.75x95.25x50.80	1.48	1.18	.99	.89
543R0260	260	A	6$^{13}/_{16}$x5$^{9}/_{32}$x2$^{5}/_{16}$	173.04x134.14x58.74	2.30	1.84	1.54	1.38
543-0280	280	A	8$^{7}/_{16}$x7$^{7}/_{16}$x3$^{1}/_{64}$	214.31x188.91x75.60	4.45	3.56	2.97	2.67
543-0231	231	B	4$^{47}/_{64}$x3$^{63}/_{64}$x$^{1}/_{16}$	120.25x101.20x1.59	.55	.44	.37	.33
543R0221	221	B	3$^{49}/_{64}$x2$^{41}/_{64}$x$^{1}/_{16}$	95.65x67.07x1.59	.28	.22	.18	.17
543R0241	241	B	6$^{15}/_{64}$x3$^{47}/_{64}$x$^{1}/_{8}$	158.35x94.85x3.18	1.05	.84	.70	.63
543R0261	261	B	6$^{51}/_{64}$x5$^{17}/_{64}$x$^{1}/_{8}$	172.64x133.75x3.18	1.78	1.42	1.19	1.07
543-0281	281	B	8$^{7}/_{64}$x7$^{7}/_{64}$x$^{1}/_{8}$	205.98x180.58x3.18	2.98	2.38	1.99	1.79

ALUMINUM CHASSIS BASES

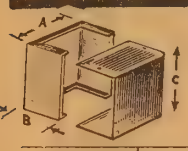


Offer outstanding strength and rigidity for construction of amplifiers, meters and other components. Made from one piece of sheet metal. Welded on government-approved spot welders developed for aluminum. All sides folded in at the bottom for additional support assuring strength and durability. Natural finish aluminum alloy 5005 H-14. Are 18 ga., except †16 ga. or *14 ga. ‡Prepunched for easy assembly of chassis mounting brackets.

Stock No.	Mfr's Type	Size Inches WxDxH	Wt., Lbs.	EACH 1-9	EACH 10-Up
736-0015	AC-415†‡	10x17x2	1¼	10.12	6.75
736-0016	AC-416†‡	10x17x3	2	11.50	7.70
736-0027	AC-427*‡	10x17x4	3½	13.10	10.95
736-0026	AC-426*‡	11x17x2	2¼	12.75	8.50
736-0018	AC-418*‡	12x17x3	2¾	12.00	10.00
736-0019	AC-419*‡	13x17x2	2½	13.00	8.70
736-0020	AC-420*‡	13x17x3	2¾	12.40	10.35
736-0028	AC-428*‡	13x17x4	3¾	15.10	11.35
736-0205	AC-1405	4x6x1½	¼	3.87	2.60
736-0208	AC-1408	5x9x1½	⅜	4.87	3.25
736-0213	AC-1413	6x8x2	½	5.00	3.35
736-0218	AC-1418	8x10x2½	1	7.50	5.00
736-0219	AC-1419‡	8x12x2½	1	8.87	5.95
736-0222	AC-1422†	10x17x5	2½	7.00	4.70
736-0225	AC-1425†	12x17x2	1½	13.12	8.75
736-0226	AC-1426*	13x17x5	3½	17.35	16.60
736-0227	AC-1427*	14x17x3	3	14.80	13.10
736-0228	AC-1428*	15x17x4	3½	17.35	16.60
736-0229	AC-1429*	15x17x6	3¾	23.95	22.80
736-0230	AC-1430*	17x17x3	3¼	14.70	12.95
736-0231	AC-1431*	17x17x4	4	20.70	19.80

Stock No.	Mfr's Type	Size Inches WxDxH	Wt., Lbs.	EACH 1-9	EACH 10-Up
736-0031	AC-431	4x6x2	½	4.37	2.90
736-0030	AC-430	4x6x3	½	4.87	3.25
736-0032	AC-432†	4x17x3	1¼	8.37	5.60
736-0002	AC-402	5x7x2	½	4.62	3.10
736-0029	AC-429	5x7x3	¾	5.12	3.40
736-0003	AC-403	5x9½x2	½	5.00	3.60
736-0021	AC-421	5x9½x3	¾	6.00	4.00
736-0004	AC-404	5x10x3	¾	6.00	4.00
736-0022	AC-422	5x13x3	¾	7.00	4.70
736-0033	AC-433†	6x17x3	1¼	10.12	6.75
736-0005	AC-405	7x7x2	½	5.00	3.60
736-0006	AC-406	7x9x2	½	5.13	3.40
736-0007	AC-407	7x11x2	¾	6.00	4.00
736-0008	AC-408	7x12x3	1	7.25	4.85
736-0009	AC-409	7x13x2	¾	6.12	4.10
736-0011	AC-411†	7x15x3	1½	10.12	6.75
736-0023	AC-423†	7x17x3	1¾	10.12	6.75
736-0024	AC-424†	8x12x3	1½	8.62	5.75
736-0025	AC-425†	8x17x2	1½	9.00	6.00
736-0012	AC-412†‡	8x17x3	1¾	10.50	7.00
736-0013	AC-413†	10x12x3	1½	10.50	7.00
736-0014	AC-414†	10x14x3	1¾	10.50	7.00

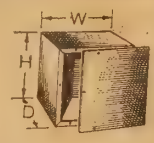
ALUMINUM TWO-PIECE MINIBOXES



Self-contained units for use where shielding as well as protection from dust and dirt is desired. May be used for phono amplifiers, VHF and UHF converters, low-pass TVI filters, test and measurement units, etc. Two-piece construction permits installation of components or wiring modifications. Flanges assure low RF leakage and provide high rigidity. Choice of snap-lock fastening or screw fastening; all hardware supplied. Made of high-quality aluminum — Light Gray or Natural Finish. Easy to cut, punch and drill.

Size In. AxCxB	Wt., Lbs.	Light Gray	Mfr's Type	EACH 1-24	EACH 25-Up	Natural Aluminum	Mfr's Type	EACH 1-24	EACH 25-Up
2¾x2⅛x1⅝	¼	736R3633	CU-2100-B	2.62	1.75	736-3651	CU-3000-B	1.88	1.25
3¼x2⅛x1⅝	¼	736-3634	CU-2101-B	2.62	1.75	736-3652	CU-3001-B	1.88	1.25
4x2⅛x1⅝	¼	736-3635	CU-2102-B	2.87	1.90	736-3653	CU-3002-B	2.13	1.40
4x2¼x2¼	¼	736R3636	CU-2103-B	3.00	2.00	736-3654	CU-3003-B	2.38	1.60
5x2¼x2¼	¼	736-3637	CU-2104-B	3.50	2.35	736-3655	CU-3004-B	2.38	1.60
5x4x3	½	736R3638	CU-2105-B	4.25	2.85	736R3656	CU-3005-B	3.25	2.20
5¼x3x2⅛	¼	736-3639	CU-2106-B	3.75	2.50	736-3657	CU-3006-B	3.25	2.20
6x5x4	¾	736R3640	CU-2107-B	5.37	3.60	736-3658	CU-3007-B	4.50	2.90
7x5x3	¾	736R3641	CU-2108-B	6.00	4.00	736-3659	CU-3008-B	5.62	3.80
8x6x3½	1	736-3642	CU-2109-B	7.87	5.25	736-3660	CU-3009-B	7.25	4.65
10x6x3½	1¼	736-3643	CU-2110-B	8.62	5.75	736-3661	CU-3010-B	8.12	4.70
12x7x4	1¾	736-3644	CU-2111-B	11.75	7.85	736-3662	CU-3011-B	11.25	7.20
12x2½x2¼	¾	736-3647	CU-2114-B	5.87	3.90	.....	.....	....	....
4x2x2¾	¼	736-3648	CU-2115-B	3.12	2.10	.....	.....	....	....

METAL UTILITY CABINETS



General-purpose cabinets for small area housings. Two removable panels, both front and rear, provide easy access to inside. **Steel cabinets in Black Rinkletex or Gray Hammertone finish; aluminum cabinets in Natural Aluminum or Gray Hammertone finish.**

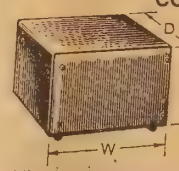
STEEL

Size Inches HxWxD	Black Rinkletex	Gray Hammertone	Mfr's Type	Wt., Lbs.	EACH 1-24	EACH 25-49	EACH 50-Up
4x4x2	736-3626	736-3625	CU-883	¾	5.62	3.75	3.40
4x5x3	736-3615	736-3614	CU-728	1	5.62	3.75	3.40
6x5x4	736-3617	736-3616	CU-729	1¾	7.00	4.70	4.25
6x6x6	736-3628	736-3627	CU-1098	2¼	9.50	6.35	5.70
9x6x5	736-3629	736-3630	CU-1099	3	10.75	7.20	6.50
10x8x7	736-3619	736-3618	CU-879	3¼	12.75	9.75	8.80
10x10x8	.....	736-3620	CU-880	6¼	13.60	11.35	10.20
12x7x6	.....	736-3631	CU-1124	5	11.70	9.75	8.80
12x11x8	736-3623	736-3622	CU-881	8½	15.10	12.60	11.35
15x9x7	.....	736-3624	CU-882	5	15.20	12.70	11.45

ALUMINUM

Size Inches HxWxD	Mfr's Type	Natural Finish	EACH 1-24	EACH 25-49	EACH 50-Up	Gray Hammertone	EACH 1-24	EACH 25-49	EACH 50-Up
4x4x2	AU-1083	736-1008	5.37	4.25	3.85	736-1009	6.37	4.25	3.85
4x5x3	AU-1028	736-1000	5.62	3.75	3.45	736-1001	7.25	4.85	4.35
6x5x4	AU-1029	736-1002	6.37	4.25	3.85	736-1003	7.62	5.10	4.60
6x6x6	AU-1039	736-1004	9.50	6.35	5.70	736-1005	10.12	6.75	6.10
9x6x5	AU-1040	736-1006	10.50	7.00	6.30	736-1007	12.75	8.50	7.65

CONTOUR UTILITY CABINETS

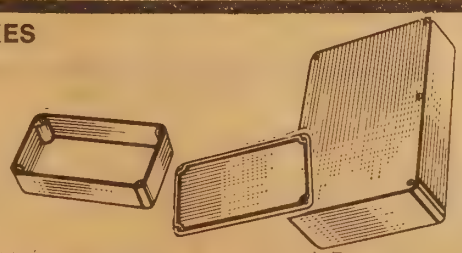


Made of 20-gauge steel. Rounded contoured corners; flanged panels have rounded corners. Rear panel is louvered. Solid front panel. Both front and rear panels attached with four 6-32 screws each. Body in Dark Gray textured finish; panels are Light Gray textured finish providing handsome appearance. Shpg. wts.: CU-463, 1½ lbs.; CU-465, 2 lbs.; CU-585, 3 lbs.; CU-587, 3½ lbs.; CU-7125, 5 lbs.; CU-7127, 5¾ lbs.

Stock No.	Mfr's Type	Size Inches HxWxD	EACH 1-9	EACH 10-24	EACH 25-Up
736-3606	CU463	4½x6½x3¾	11.65	10.60	9.55
736-3607	CU465	4½x6½x5¾	13.30	12.10	10.90
736-3609	CU585	5½x8½x5¾	17.10	15.55	14.00
736-3610	CU587	5½x8½x7¾	18.80	17.10	15.40
736-3669	CU7125	7½x12½x5¾	18.20	16.55	14.90
736-3670	CU7127	7½x12½x7¾	19.20	17.45	15.70

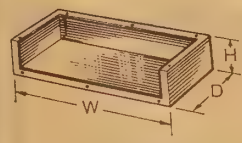
ECONOBOXES

Versatile die-cast utility boxes for applications requiring a sturdy structure. Especially desirable for concealed or other interior use where safety enclosure is required. Feature close-fitting flanged lids fastened to bosses in the body. The close fit of the lids and the thickness of the aluminum alloy combine to provide excellent screening properties. Cast of LM-380 aluminum.



Stock No.	Mfr's Type	Thickness Inches	Wt. Lbs.	LxWxH	EACH 1-9	EACH 10-24	EACH 25-Up
736-3592	CU-123	1/16	½	3⅜x1½x1$^{1}/_{16}$	3.62	2.45	2.20
736-3600	CU-124	1/16	½	4$^{3}/_{8}$x2$^{3}/_{8}$x1$^{1}/_{16}$	4.13	2.75	2.50
736R3601	CU-234	3/32	¾	4$^{11}/_{16}$x3$^{11}/_{16}$x2$^{1}/_{16}$	6.87	4.60	4.15
736-3602	CU-247	3/32	1¼	7$^{3}/_{8}$x4$^{11}/_{16}$x2$^{1}/_{16}$	11.00	7.35	6.60
736-3604	CU-347	3/32	1½	7$^{3}/_{8}$x4$^{11}/_{16}$x3$^{1}/_{16}$	11.50	7.70	6.95

CONVERTA BOXES

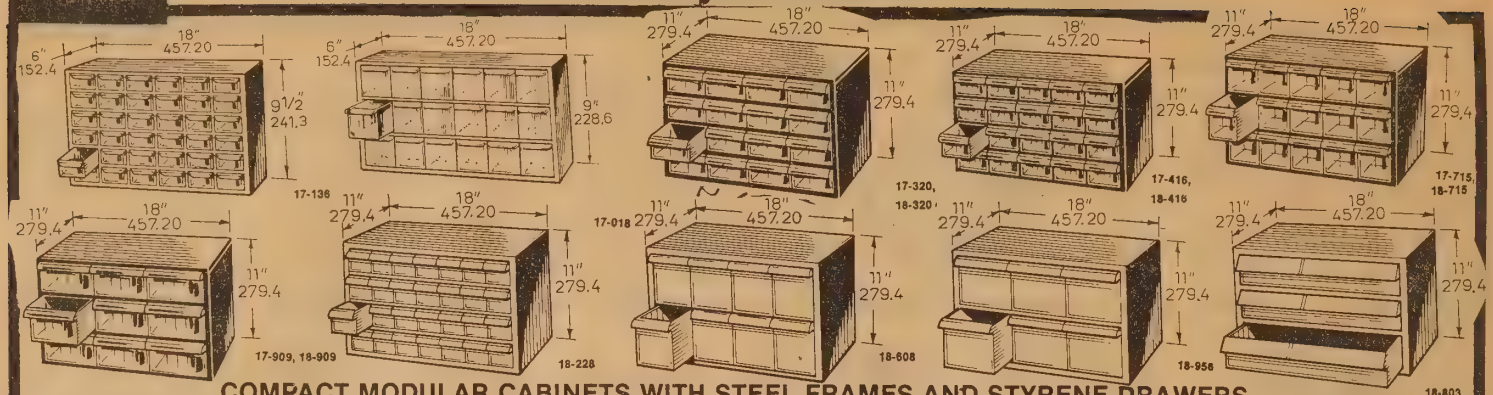


CONVERTA BOXES made of tough 20-gauge steel with welded base and two-sided cover attached by self-tapping screws (included). Cadmium plated. Mount sensitive components, controls to any surface of these enclosures.



Stock No.	Mfr's Type	Size Inches HxWxD	Wt., Lbs.	EACH 1-9	EACH 10-24	EACH 25-49	EACH 50 Up
736-3603	CU-341	1½x4x3	½	6.87	4.60	4.15	3.70
736-3605	CU-452	2x5x4	1	7.37	4.95	4.45	3.95
736-3608	CU-482	2x8x4	1¼	7.75	5.20	4.70	4.15
736-3611	CU-592	2½x9½x5	1¾	8.25	5.50	4.95	4.40
736-3612	CU-622	2½x12x6	2¾	9.00	6.00	5.40	4.80
736-3613	CU-712	2½x15x7	3½	12.12	8.10	7.30	6.50

Utility Cabinets



COMPACT MODULAR CABINETS WITH STEEL FRAMES AND STYRENE DRAWERS

Efficient, organized storage. Features heavy-duty steel frames and sturdy molded styrene drawers. Cubic design storage areas provide maximum use of minimum space. Standard 18-in. width frame can be easily hung from wall, fits into standard shelving or stacks on work bench. Nesting feet provide stacking stability. Keyhole slots for easy wall mounting. Baked enamel charcoal hammertone finish is chip-proof and scratch resistant. Transparent drawers allow quick visual check and are easily removed. All models feature dividable drawers that can be easily partitioned into subcompartments allowing efficient storage of large or small items. Dovetail dividers lock securely in slots. Two types of molded styrene drawers; both corrosion proof, have safety tab. **Gray Heavy Duty:** virtually unbreakable, hi-impact styrene. **Transparent:** for visual inventories.

CABINET ORDER REFERENCE

Cabinets With Transparent Drawers		Cabinets With Heavy-Duty Drawers		Drawers Per Cab.	Drawer Size						Cabinet Size						Ship. Wt. Lbs.	EACH	
					Width		Height		Length		Width		Height		Length				
Stock No.	Mfr's Type	Stock No.	Mfr's Type		In	MM	In	MM	In	MM	In	MM	In	MM	In	MM		1-9	10-Up
723R1713	17-136	.....	.....	36	2¾	69.85	1¼	31.75	5⅞	149.83	18	457.2	9½	241.3	6	152.4	12	23.03	20.88
.....	.....	723-1822	18-228	28	2⅛	53.976	2⅛	53.976	11	279.4	18	457.2	11	279.4	11	279.4	22	38.06	34.50
723-1701	17-018	.....	.....	18	2¾	69.85	2½	63.5	5⅞	149.83	18	457.2	9	228.6	6	152.4	10	23.03	20.88
723R1732	17-320	723-1832	18-320	20	3⅛	79.376	2⅛	53.976	11	279.4	18	457.2	11	279.4	11	279.4	21	34.32	31.11
723R1741	17-416	723-1841	18-416	16	4	101.6	2⅛	53.976	11	279.4	18	457.2	11	279.4	11	279.4	20	34.32	31.11
723-1771	17-715	723-1871	18-715	15	3⅛	79.376	3 1/32	76.99	11	279.4	18	457.2	11	279.4	11	279.4	20	34.32	31.11
723-1790	17-909	723-1890	18-909	9	5⅛	133.35	3 1/32	76.99	11	279.4	18	457.2	11	279.4	11	279.4	18	34.32	31.11
.....	.....	723-1860	18-608	8	4	101.6	4¾	120.65	11	279.4	18	457.2	11	279.4	11	279.4	22	34.32	31.11
.....	.....	723-1895	18-956	6	5⅛	133.35	4¾	120.65	11	279.4	18	457.2	11	279.4	11	279.4	22	34.32	31.11
.....	.....	723-1880	18-803	3	16¼	425.45	3 1/32	76.99	11	279.4	18	457.2	11	279.4	11	279.4	18	30.06	27.25

One cross divider furnished per drawer except 18-803

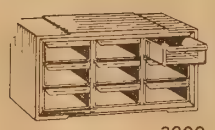
CROSS DIVIDERS

Stock No.	Mfr's Type	Fits Cabinet	Package Quantity	Per Pkg. 1-9	Per Pkg. 10-Up
723-4050	40-901	17-018	25	2.75	1.95
723R4090	40-501	17-136	25	1.48	1.04
723-4220	42-201	18-228	25	4.32	3.09
723-4230	42-301	17-320, 18-320	25	2.75	1.94
723R4240	42-401	17-416, 18-416	25	3.32	2.35
723-4310	43-101	17-715, 18-715	25	4.12	2.92
723-4330	43-301	17-909, 18-909	25	4.40	3.11

LONG DIVIDERS

Stock No.	Mfr's Type	Fits Cabinet	Package Quantity	Per Pkg. 1-9	Per Pkg. 10-Up
723-4212	42-121	17-136	25	3.32	2.35
723-4243	42-431	17-320, 18-320 17-416, 18-416	10	2.75	1.94

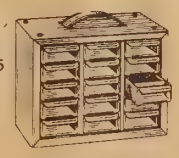
ECONOMY STORAGE CABINETS



3009



3018



3015

Type 11-565. Features a locking security door and six standard 2¾ × 1¼ × 5¾" drawers for small items, three double deep 2¾ × 2½ × 5¾" drawers for storing larger parts or components, as well as one jumbo 8¾ × 2½ × 5¾" drawer for storing large items. Clear styrene "see-thru" drawers dividers, included. Cabinet has blue baked enamel finish, welded steel frame and handle for portability. Size: 10 × 9¼ × 7".

723-3014. Shpg. wt. 5¾ lbs. ..... **Each 12.20**

Type 3009. Molded plastic frame. 9 "See-Thru" (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 31.75 × 146.05 mm) drawers. Baked Avocado finish. Adjustable drawer dividers and labels. Size (W × H × L) 9¾ × 5 × 6¾" (247.65 × 127.0 × 171.45 mm).

723-3009. Shpg. wt. 4 lbs. ..... **Each 4.95**

Type 3015. 15 "See-Thru" (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 63.5 × 146.05 mm) drawers. Tote handle for portability. Unitized (W × H × L) 10 × 8 × 6½" (254.0 × 203.2 × 165.1 mm) frame. Adjustable dividers. Baked enamel finish.

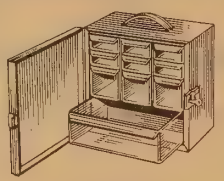
723-3015. Shpg. wt. 4 lbs. ..... **Each 9.07**

Type 3018. 18 "See-Thru" drawers, each (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 63.5 × 146.05 mm), in a heavy-duty 10 × 9½ × 6½" (254.0 × 241.3 × 165.1 mm) unitized steel frame. Metallic blue baked enamel finish. Unbreakable carrying handle.

723-3018. Shpg. wt. 4 lbs. ..... **Each 10.50**

Type 3024. 24 "See-Thru" styrene drawers — (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 63.5 × 146.05 mm) each. Metallic blue finish, unitized steel frame, 13 × 9½ × 6½" (330.2 × 241.3 × 165.1 mm). One divider, label per drawer.

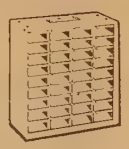
723-3026. Shpg. wt. 7 lbs. ..... **Each 12.20**



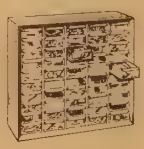
11-565



3024



3036



3050

Type 3036. 36 compact drawers — each (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 63.5 × 146.05 mm). Sturdy unitized steel frame measures 13 × 13½ × 6½" (330.2 × 342.9 × 165.1 mm). Durable and attractive baked enamel blue finish. Tote handle gives mobility to lightweight cabinet. "See-Thru" drawers have adjustable lock-tight dividers for smaller sectioning.

723-3036. Shpg. wt. 8 lbs. ..... **Each 16.12**

Type 3050. Ideal for storage, protection, organization of shop or office small parts. 50 "See-Thru" drawers — (W × H × L) 2¾ × 1¼ × 5¾" (69.85 × 63.5 × 146.05 mm). Indexing with labels and one divider per drawer. Unitized steel frame with blue finish. 16 × 15 × 6½" (406.4 × 381 × 165.1 mm).

723R3050. Shpg. wt. 12 lbs. ..... **Each 16.95**

SUPER-STRENGTH "SEE-THRU" PLASTIC BOXES

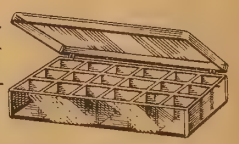


Keep assorted small parts separated and neatly organized in these see-through plastic boxes. Constructed of clear styrene which is lightweight but durable. Ideal for use in the home, workshop or office. All have hinged cover. *Partitions form up to 15 compartments. ‡Makes 6 to 18 compartments. Shpg. wt. 1 lb.

Stock No.	Type No.	Overall Size In	Overall Size MM	Compartments	EACH 1-9	EACH 10-Up
723-3075	05-206	4¾ x 1 x 2⅝	120.65 x 25.4 x 66.66	6 Equal	.70	.47
723-3080	05-406	8½ x 4¾ x 1½	215.9 x 120.65 x 38.1	Adj. Partitions‡	2.05	1.48
723-3090	05-505	10 7/16 x 2 x 5⅞	265.12 x 50.8 x 149.83	5 Fixed; 2 Adj.*	3.50	2.45

PLASTIC PARTS STORAGE BOXES

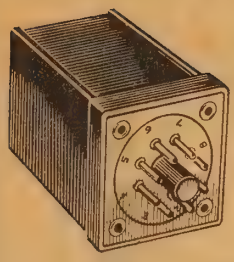
Stock No.	Mfr's Type	No. *	Compartment Sizes Inches	Overall Size Inches	Lbs.	EACH 1-9	EACH 10-Up
981-1250	A250	1	5⅞ x 3⅝	6¼ x 4 x 1 1/16	1	1.31	.87
981-1203	A203	6	1⅛ x 3 1/16	8¼ x 4½ x 1⅜	1½	1.78	1.19
981-1210	A210	9	8—1⅜ x 1⅜	7x3¾ x 1¼	1	1.23	.82
			1—1⅜ x 3¼				
981-1812	A812	12	2 x 4 7/16 x 2 1/16	13⅛ x 9 x 2 1/16	1	6.16	4.17
981-1201	A201	12	6—1¼ x 1¼; 4—				
			1¼ x 2; 2—1½ x 3 15/16	8¼ x 4½ x 1⅜	1½	1.78	1.19
981-1612	A612	12	6—1⅝ x 1 15/16				
			6—1⅝ x 4	11 x 6¾ x 1¾	2½	6.16	4.17
981-1200	A200	18	1¼ x 1¼	8¼ x 4½ x 1⅜	1½	1.78	1.19
981-1618	A618	18	1⅝ x 1 15/16	11 x 6¾ x 1¾	2½	3.88	2.72
981-1818	A818	18	12—2 x 2; 6—2 x 4⅜	13⅛ x 9 x 2 1/16	3	6.30	4.20
981R1824	A824	24	2 x 2	13⅛ x 9 x 2 1/16	3½	6.58	4.39
981-1166	A166	36	1⅛ x 1 1/16 x 1 3/16	10 x 7 x 1 3/16	3½	4.51	3.00



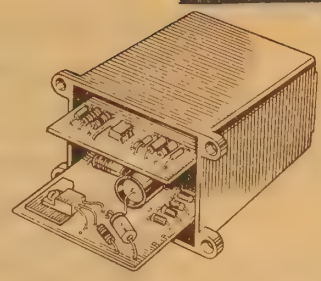
Rugged, all-plastic boxes with hinged tops. Lightweight, scratch-resistant, easy to clean. One to 36 compartments. Molded of clear polystyrene—"see-thru" feature. Strong hinge. A250 has removable cover. *Total compartments in box.

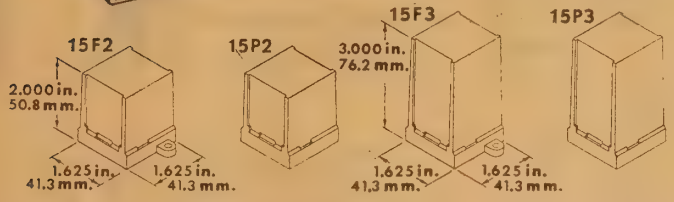
For Fast, Dependable Service, Call Your Nearest Allied Electronics Facility

Multi-Purpose Electronic Enclosures



All enclosures are precision molded of tough, fire and moisture-resistant plastic offering high dielectric strength. Molded internal tracks hold up to 4 printed circuit boards, perf boards or dividers without the use of any fasteners, spacers or insulators. PC boards, coils and assemblies may be fully encapsulated with potting compound; or partially encapsulated using a divider in the track. Cases may be mounted through their 2 or 4 legs, or with special bases. A wide variety of bases are available to meet almost any packaging and installation requirements: plain removable type (which can be easily adapted to permanent, tamperproof assembly); single or double slot type for edge connector boards; octal, 11-pin, 20-pin, 12-pin rectangular, or 115-volt convenience plug types. Type 23 Enclosures are available plain, or with one or two external tracks which are grooved to secure heat sinks, terminals, side-mounting bracket or special accessories. Power semiconductors may be mounted internally on PC board, or on heat sinks held by the external tracks.





Type 15 Enclosures are available in 2" and 3" size, with or without mounting feet. Any base listed below may be easily snapped into any size or style enclosure. Bases may be removed without damage to the enclosure or the base or made into a tamperproof assembly. *Indicates boards which mount diagonally in the enclosure.

TYPE 15 ENCLOSURES

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-Up
883-0010	15-F2	2" with mtg. feet	1.28	1.08	.96	.84
883-0020	15-P2	2" without mtg. feet	1.28	1.08	.96	.84
883-0030	15-F3	3" with mtg. feet	1.56	1.33	1.18	1.04
883-0040	15-P3	3" without mtg. feet	1.56	1.33	1.18	1.04

PLAIN AND PLUG-TYPE BASES



Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-Up
883-0050	B15-P	Plain	.38	.32	.29	.25
883-0060	B15-OP8M	8-pin	1.14	.85	.77	.70
883-0070	B15-OP11M	11-pin	1.28	.92	.84	.77
883-0080	B15-OP20M	20-pin	1.55	1.07	.99	.91

BASES WITH 115-VOLT CONVENIENCE PLUG

883-0090	B15-C2	2-pole	1.25	.91	.84	.76
883-0100	B15-C3	3-pole	1.35	.96	.88	.80

ACCESSORIES

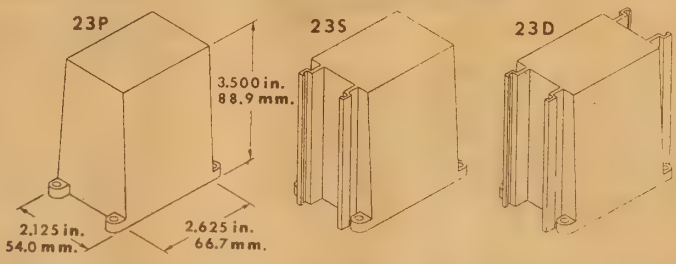
Stock No.	Mfr's Type	Description	PER PAIR 1-9	10-49	50-99	100-Up
883-0110	RC15	Retaining Clips	.50	.42	.38	.34

INSERT BOARDS FOR 2" ENCLOSURE

Stock No.	Mfr's Type	Description	EACH 1-9	10-99	100-499	500-Up
883-0120	CB15-PF2	.1" x .1" Perfboard	.34	.26	.19	.18
883-0130	CB15-PF2Y	.1" x .1" Perfboard*	.45	.34	.25	.23
883-0140	CB15-SC2	Single-Clad PC Board	.28	.21	.16	.15
883-0150	CB15-DC2	Double-clad PC Board	.30	.23	.17	.16
883-0160	CB15-PD2	Blank Divider	.15	.12	.09	.08

INSERT BOARDS FOR 3" ENCLOSURE

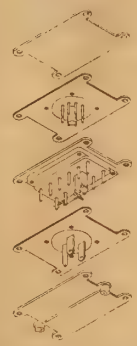
Stock No.	Mfr's Type	Description	EACH 1-9	10-99	100-499	500-Up
883-0170	CB15-PF3	.1" x .1" Perfboard	.53	.40	.30	.28
883-0180	CB15-PF3Y	.1" x .1" Perfboard*	.70	.53	.39	.37
883-0190	CB15-SC3	Single-clad PC Board	.36	.27	.21	.19
883-0200	CB15-DC3	Double-clad PC Board	.40	.31	.23	.21
883-0210	CB15-PD3	Blank Divider	.20	.15	.11	.10



Type 23 Enclosures are available with or without external mounting tracks, which may be used for heat sinks, terminal blocks, and/or mounting bases. Any style enclosure can be used with any of the bases or internal inserts listed below. All bases are easily installed using either screws or eyelets.

TYPE 23 ENCLOSURES

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-Up
883-0220	23P	Plain	2.10	1.79	1.59	1.39
883-0230	23S	One external track	2.40	2.04	1.81	1.59
883-0240	23D	Two external tracks	2.70	2.29	2.03	1.78



PLAIN AND PLUG-TYPE BASES

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-Up
883-0250	B23P	Plain	.48	.40	.36	.32
883-0260	B23OP-8	8-pin	1.24	.93	.84	.76
883-0270	B23OP-11	11-pin	1.38	1.00	.92	.83
883-0280	B23OP-20	20-pin	1.64	1.15	1.06	.97
883-0290	B23RP-12	12-pin rectang.	2.09	1.41	1.31	1.21
883-0300	B23C-2	115 V; 2-pole	1.35	.99	.91	.82
883-0310	B23C-3	115 V; 3-pole	1.44	1.04	.95	.87

BASES FOR EDGE CONNECTOR PC BOARDS

883-0320	B23S-1	Single slot	.63	.54	.48	.42
883-0330	B23S-2	Double slot	.63	.54	.48	.42

ACCESSORIES

Stock No.	Mfr's Type	Description	EACH 1-9	10-49	50-99	100-Up
883-0340	MB-3	Mtg. strap/term. block adapter	.53	.45	.40	.35
883-0350	SC23-A	External track cover	.22	.18	.16	.14

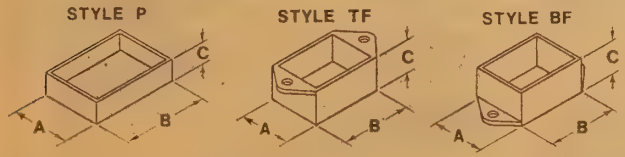
EXTERNAL INSERTS

883-0410	T23P	Aluminum Heat Sink—plain	1.08	.81	.61	.57
883-0415	T23B	Laminate Insert—plain	.55	.42	.31	.29
883-0418	T23B5	Laminate Insert—drilled for term. block	1.01	.77	.58	.53

INTERNAL INSERTS

Stock No.	Mfr's Type	Description	EACH 1-9	10-99	100-499	500-Up
883-0360	CB23-PF	.1" x .1" Perfboard	1.12	.85	.63	.59
883-0370	CB23-SC	Single-clad PC Board	.62	.47	.35	.32
883-0380	CB23-DC	Double-clad PC Board	.72	.55	.41	.38
883-0390	CB23-PD	Blank Divider	.35	.27	.20	.18
883-0400	CB23-EC	Edge Connector Adapt.	3.98	2.25	2.10	2.03

POTTING AND ENCAPSULATING BOXES



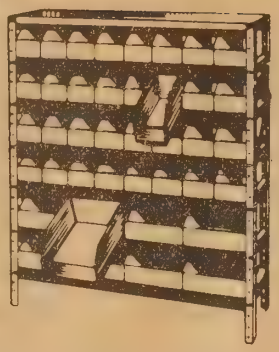
Provide an efficient, low-cost method of packaging miscellaneous components and circuitry. Molded of tough, fire and moisture-resistant thermoplastic.

Potting and encapsulating boxes are available in three styles: plain, with top mounting feet, or with bottom mounting feet.

Size, Inches A	B	C	Plain (P) Stock No.	Mfr's Type	Top Feet (TF) Stock No.	Mfr's Type	Bottom Feet (BF) Stock No.	Mfr's Type	EACH 1-9	10-49	50-99	100-Up
1.00	1.00	0.75	883-0420	P-010175	883-0421	TF-010175	883-0422	BF-010175	.55	.47	.42	.37
1.50	2.00	1.00	883-0430	P-150201	883-0431	TF-150201	883-0432	BF-150201	.69	.58	.52	.45
2.00	2.00	1.50	883-0440	P-020215	883-0441	TF-020215	883-0442	BF-020215	.83	.70	.62	.55
2.00	3.00	1.50	883-0450	P-020315	883-0451	TF-020315	883-0452	BF-020315	.93	.79	.70	.62
3.00	3.00	1.50	883-0460	P-030315	883-0461	TF-030315	883-0462	BF-030315	1.28	1.08	.96	.84

Shelves, Bins, Cabinets and Carts

40-BIN STORAGE RACK



MODEL CC40. Keeps small parts, tools, and hardware in one central location. Stop tabs prevent accidental removal of bins from front or back. Drawer cannot be pushed in too far or pulled out until it spills. Bins are "C" flute corrugated board, 125 lb. test. Set up easily. Total of 40 drawers: 32—4" w. x 11½" d. x 4½" h. 8—8" w. x 11½" d. x 4½" h. Seven-shelf steel rack is 12" deep x 36" wide x 40" high. Shipped KD. Easy assembly.

548R0240. Shpg. wt. 37 lbs. . **Each 44.51**

STEEL STORAGE SHELVES



- **Heavy-Duty 22-Gauge Shelves**
- **450 Lbs. Test Per Shelf**
- **Gray Baked Enamel Finish**

Each of the six shelves holds 450 lbs. and can be adjusted on 1" centers without disturbing shelves in adjoining units. Kwik Klip — no nuts, bolts, or special tools required. Shipped knocked down for easy assembly. 75" high, 36" wide.

Stock No.	Mfr's Type	Shelf Depth	Wt. Lbs.	EACH 1-9	EACH 10-Up
548-2912	2912-6	12"	54	36.14	28.67
548-2918	2918-6	18"	67	46.38	36.80

HEAVY DUTY ALL-STEEL STORAGE CABINET



- **Easy To Assemble**
- **Gray Enamel**
- **Lockable Handles**

MODEL 7000. Full 72" of height provides maximum storage space. Four shelves adjust on 1½" increments to meet specific storage needs and accommodate even large size office supplies. Two swing out doors with locking handles discourage pilferage. Built of lifetime steel. 36" wide x 18" deep x 72" high. 110 lbs. Shipped K.D.

548-4000 ..... **Each 118.71**

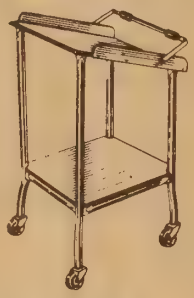
STEEL WORK BENCH



Hard 1" pressed wood bench top supports 200 lbs. per sq. ft. Braced, one piece welded 16-gauge legs. Easily assembled. Shipped KD. Shpg. wt., 76 lbs.

Stock No.	Mfr's Type	Size	EACH
548-0580	UB800	34x30x72"	76.12

ALLIED MODEL 8000 MOBILE TEST TABLE



- **Accommodates Equipment Up To 15½" Wide**
- **Rugged, Lightweight**
- **Attractive Low Price**
- **Assembles in Minutes**

Slanted top supports instruments at convenient angle. Sturdy casters provide easy mobility. Support arm adjusts for various sizes. 17x19" top. Height, 34". Insulated top. Molded edges. Tubular steel arms have 1" dia. Assembles in 5 minutes without special tools.

647-8000. Shpg. wt. 23 lbs. ..... **Each 34.50**

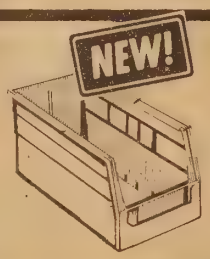
ALL-PURPOSE SERVICE CART



Carries up to 500 lbs. Two trays keep smaller items from falling off. Trays spaced 20" apart to handle larger loads. Top trays reverse for work surface or to allow for wider items. Built of 14 and 20-gauge steel. 5" hard rubber casters, two stationary and two swivel. 32" high.

Stock No.	Size	Wt. Lbs.	EACH 1-9	EACH 10-Up
548-0424	24x36x32"	56	51.71	41.05
548-0416	30x16x32"	32	61.14	48.50





SHELF BINS

Durable, inexpensive 4⅛" (104.77mm) by 4" (101.6mm) polypropylene bins for 12" (304.8mm) deep shelves is convenient way to store and display small parts. Eight bins fit on a 36" (914.4mm) width shelf. Unbreakable, one-piece molded bins are seamless, waterproof and unaffected by grease and oil. Built-in hang lock allows bin to be tilted for easy access. Two adjustable dividers per bin are included. Convenient handle provides large lapel area for card or stick-on lapel (not furnished). Permanent molded-in bright yellow color. Ctn. Wt. 10 lbs. (4.54kg).



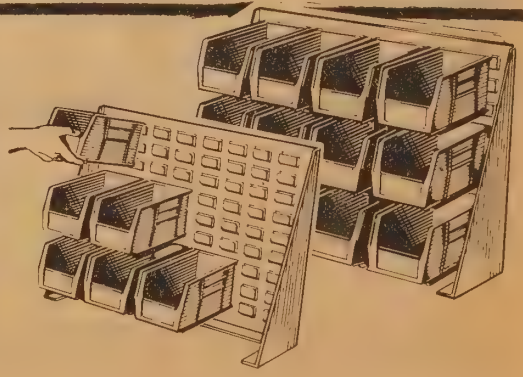
Stock No.	Mfr's Type	(HxWxL) In.	(HxWxL) (mm)	EACH 1-23	EACH 24-143	EACH 144-Up
723-3020	30-120	4⅛x4x11¾	104.77x101.6x298.45	1.60	1.09	.92

723-4023. Type 40-120, EXTRA DIVIDERS. Pk/25 **Each** . . **4.98**
5 Pks. Up ..... **Each 3.52**

BIN BENCH STAND

Compact, steel bench stand will accommodate three different bin sizes without change or adjustment. Sturdy, welded steel frame snaps together in just a few seconds and has a 120-lb. capacity. No nuts or bolts required. Ideal for small assembly or parts storage. Accepts the polypropylene bins at right. The bins feature interlock for easy stacking, anti-slide front stop, finger grips, label holder and slot for inventory card, heavy reinforcing ribs to prevent spreading under load. Bins are interchangeable, stackable. This bench stand is a compact 27½×20×8" (698.5×508×203.2 mm). Black, baked enamel finish. Shpg. wt. 11 lbs.

723-9860. Bench Stand Only ..... **Ea. 22.04**



STACKING STORAGE BINS FOR BENCH STAND

Stock No.	Mfr's Type	Outside Dia. Length In	Length MM	Width In	Width MM	Height In	Height MM	EACH 1-23	EACH 24-Up
723-3021	30-210	5⅜	136.53	4⅛	104.776	3	76.2	.78	.55
723-3022	30-220	7⅜	187.33	4⅛	104.776	3	76.2	1.43	1.02
723-3023	30-230	10⅞	276.83	5½	139.7	5	127.0	3.50	2.49
723-3024	30-240	14¾	374.65	8¼	209.55	7	177.8	7.00	4.99

Handles and Knobs



UTILITY HANDLES

These popular utility handles are precisely made of brass, die cast aluminum, chrome plated steel or chrome plated brass. Applications unlimited! All come complete with mounting hardware and accessories.

TYPE H-9115

(A) 3/8" (9.52mm) steel rod with chrome plate finish. 15/16" (23.8mm) hand clearance. Includes two nuts. **Sold per pair.**

Stock No.	Mfr's Type	Mtg. Ctrs. In.	Mtg. Ctrs. (mm)	PER PAIR 1-24	25-49	50-99	100-Up
736-4315	H-9115	4	101 6	11.75	7.85	7.05	6.30

TYPE H-9166 BRASS HANDLE

(B) 1/4" (6.35mm) diameter handle with chrome-plated finish. 1" (25.4mm) hand clearance. Includes two screws. **Sold per pair.**

Stock No.	Mfr's Type	Mtg. Ctrs. In.	Mtg. Ctrs. (mm)	PER PAIR 1-24	25-49	50-99	100-Up
736-4366	H-9166	1 15/16	49.21	6.00	4.00	3.50	3.20
736-4368	H-9168	3	76.2	6.37	4.25	3.85	3.40

RECESSED HANDLE TYPE H-9149

(C) Recessed anodized aluminum handle fits flush into die cast receptacle. 1 5/8" (41.2mm) hand clearance. Standard on Bud Classic 11 cabinets. Includes four flat head screws, nuts. 1¼ lbs. **Sold per pair.**

736-4349	H-9149	4	101.6	25.45	25.45	22.90	20.35

STEEL HANDLE TYPE H-9110

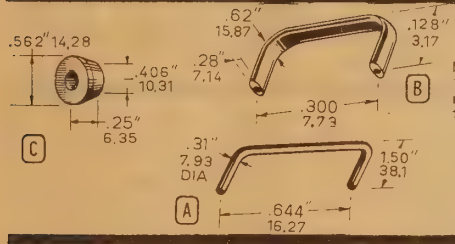
(D) 3/8" (9.52mm) diameter steel, chrome-plated. 1¼" (31.7mm) hand clearance. Includes two screws. **Sold per pair.**

Stock No.	Mfr's Type	Mtg. Ctrs. In.	Mtg. Ctrs. (mm)	PER PAIR 1-24	25-49	50-99	100-Up
736-4310	H-9110	6	152 4	14.00	9.45	8.50	7.55

STEEL HANDLE TYPE H-9111

(E) 3/8" (9.52mm) diameter steel chrome-plated handle. 1" (25.4mm) hand clearance. 2 screws included. **Sold per pair.**

736-4311	H-9111	4	101.6	7.62	5.10	4.60	4.10
736-4312	H-9112	6	152.4	8.50	5.70	5.15	4.55



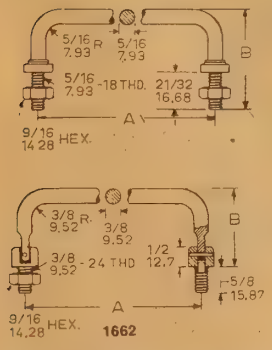
NICKEL BRASS HANDLES

Nickel-plated brass. Rugged construction. Types 1015-12 and 1034-12 oval with 10-32 threaded mounting holes. Type 900-12 nickel-plated, brass mounting ferrule, fits Types 1005-12, 1010-12, 1013-12, and 1015-12 handles. Wt. 6 oz.

Stock No.	Mfr's Type	Fig.	Description	PKG. OF 2 1-24	25-49	50-199	200-Up
971-0139	900-12	C	1.50" Brass Ferrule	.30	.26	.24	.22

Stock No.	Mfr's Type	Fig.	Mtg. Ctrs. In.	Hand Clearance In.	EACH 1-24	25-49	50-199	200-Up
971-0161	1005-12	A	6.44	1¾	2.88	2.05	1.85	1.68
971-0170	1010-12	A	4.25	1½	1.75	1.60	1.46	1.30
971-0173	1012-12	A	4.00	1½	1.75	1.65	1.50	1.35
971-0176	1013-12	A	4.56	1¼	1.88	1.70	1.55	1.40
971-0179	1015-12	B	3	1½	1.75	1.60	1.45	1.30
971-0221	1034-12	B	4.56	1½	4.38	2.95	2.70	2.40

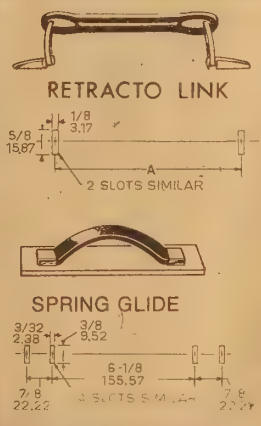
BRASS PANEL HANDLES



Meets federal specifications QQ-B-626, Composition 22, ½ hard. Polished nickel plate finish meets federal specifications QQ-N-290, Class 1, Type V1. With male threaded stud Matching ferrules and nickel plated hex nuts included. **Type 1662 Folding Handle.** Has spring-loaded detents which snap into upright or left-or-right folded position. Supplied with brass, nickel plated hex nuts. Mount in 3/8" panel holes. All handles are individually packaged. Shpg. wt. 6 oz.

Stock No.	Mfr's Type	Dia. A x B	EACH 1-9	10-Up
920-1711	1611	4x2⅛"	3.78	3.02
920-2053	2053	4¼x2⅛"	3.91	3.12
920-1714	1614	6x2 11/16"	4.45	3.56
920-1762	1662	4x1 3/16"	11.90	10.75

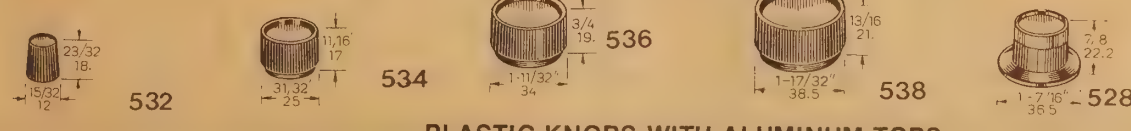
LEATHER EQUIPMENT HANDLES



- **Black Genuine Leather**
- **Handles Lie Flat When Not in Use, Move Up When Carrying**

Spring Glide contoured handle lies flat when not in use. Will not rattle under extreme vibration conditions. Chrome plated caps 120 lbs maximum load. **Retracto-Link** handle attaches with rivets or screws. Hdwe.: nickel plated steel. 60 lbs. max load. Av. wt. 3 oz.

Stock No.	Mfr's Type	Description	Lgth. In.	EACH 1-9	10-Up
920-2089	2089	Spring Glide	6	6.34	4.75
920-2093	2093	Retracto-Link	4½	5.40	4.32
920-2094	2094	Retracto-Link	5½	5.40	4.32
920-2095	2095	Retracto-Link	6¾	5.40	4.32

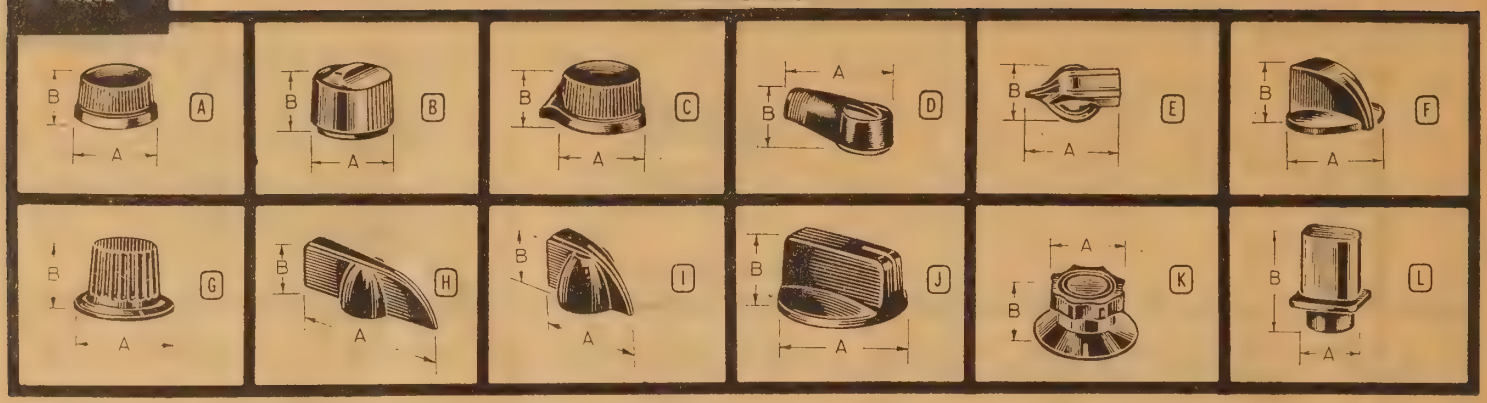


PLASTIC KNOBS WITH ALUMINUM TOPS

A full line of high quality knobs for use throughout the industry. These knobs feature decorative polished aluminum plating on top and a molded Thermosetting black plastic body and are designed to harmonize and enhance the appearance of any commercial and consumer electronic equipment. **Type 37-528** has an aluminum skirt and **Type 37-530** has a calibrated aluminum skirt. All types have a set screw and brass inset.

Stock No.	Mfr's Type	Shaft Lgth. In	Shaft Lgth. MM	Shaft Dia. In	Shaft Dia. MM	EACH 1-9	10-49	50-99	100-Up
796-3700	37-528	25/32	19.8	¼	6.35	1.68	1.33	1.16	.91
796-3710	37-530	25/32	19.8	¼	6.35	1.68	1.33	1.16	.91
796-3720	37-532	5/8	15.8	¼	6 35	.68	.55	.48	.38
796-3730	37-534	15/32	11.9	¼	6.35	.80	.65	.57	.45
796-3740	37-536	½	12.7	¼	6.35	.98	.76	.67	.53
796-3750	37-538	9/16	14.2	¼	6.35	1.15	.87	.76	.60

Knobs



ROTATING AND LEVER KNOBS

A full line of high quality knobs for use throughout the industry. This style selection will meet most commercial and industrial applications. Choose from grooved, round, pointer bar. All are quality plastic knobs of sturdy, long-lasting phenolic plastic, with a high gloss finish. Standard set screw construction provides one cup point slotted head set screw. All set screws are hardened steel, cadmium plated, iridite finish. Female inserts are half hard brass rod. Mounting keys: *¼" diameter molded hole and slotted set screw; §¼" diameter female brass insert and slotted set screw; ‡self locating friction fit for use on flat wire shaft .050x.187".

Stock No.	Mfr's Type	Equiv. Type No.	Fig.	Size Inches A	Size Inches B	Size Millimeters A	Size Millimeters B	EACH 1-99	EACH 100-499	EACH 500-Up
543-1450	1450	.....	A*	11/16	13/32	17.46	10.32	.18	.14	.12
543-1475	1475	.....	A*	1	½	25.40	12.70	.26	.21	.17
543-1700	1700	.....	B*	¾	19/32	19.05	15.08	.32	.25	.21
543R1400	1400	.....	C*	11/16	13/32	17.46	10.32	.18	.14	.12
543-1470	1470	.....	C*	1	½	25.40	12.70	.34	.27	.22
543-2120	2110	.....	D§	1⅝	19/32	41.28	15.08	.52	.42	.35
543-2150	2150	.....	E*	1¼	9/16	31.75	14.29	.28	.22	.18
543-1550	1550	.....	F*	1⅛	⅝	28.58	15.88	.26	.21	.17

Stock No.	Mfr's Type	Equiv. Type No.	Fig.	Size Inches A	Size Inches B	Size Millimeters A	Size Millimeters B	EACH 1-99	EACH 100-499	EACH 500-Up
543-1600	1600	.....	G*	1½	11/16	37.10	17.46	.38	.30	.25
543-1610	1610	.....	G*	29/32	19/32	23.02	15.08	.33	.26	.22
543R2300	2300	292-1L	I*	1¼	⅝	31.75	15.88	.21	.16	.14
543R2301	2300-A	292-3L	I§	1¼	⅝	31.75	15.88	.37	.30	.25
543R2351	2350-A	293-3L	H§	2	⅝	50.80	15.88	.51	.40	.34
543R1500	1500	.....	J*	1⅛	9/16	28.58	14.29	.28	.23	.19
543-4108	4108	.....	K§	21/16	29/32	52.39	23.02	1.53	1.23	1.02
543-2190	5149-A	.....	L‡	½	51/64	12.70	20.24	.14	.11	.09

STANDARD SERIES ROUND AND POINTER KNOBS

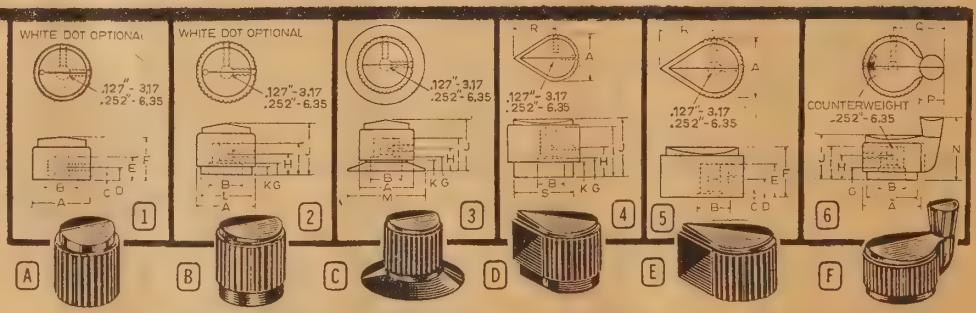
All are molded from high-impact polycarbonate with corrosion-resistant aluminum inserts for maximum strength. Two setscrews: 4-40 UNC-3A on 50, 70 series and ⅛" shaft models; 8-32 UNC-3A on others. ‡Gray.

EXPLANATION OF TYPE NUMBERS

70-3BL-2G

DIAMETER TYPE STYLE SHAFT SIZE FINISH

Diameter: 50-½"; 70-¾"; 90-1"; 125-1¼"; 175-1¾". **Type:** 1-Plain Round; 2-Round/Ring Skirt; 3-Round-Dial Skirt; 4-Plain Pointer Bar; 5-Pointer/Ring Skirt Bar; 6-Crank. **Style:** WD-White Dot; BL-Backlighted Skirt; CB-Concentric Base. **Shaft Hole Size:** 1-.127"; 2-.252". **Finish:** None-Mirror Finish; G-Matte Finish.

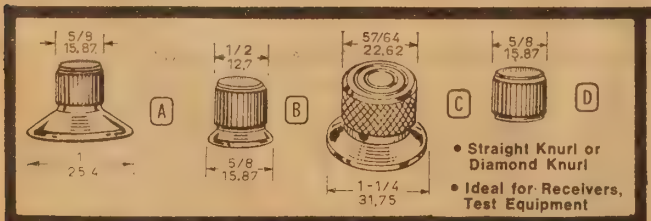


KNOB DIMENSIONS FOR STANDARD SERIES KNOBS (FIGS. A, B, C, D, E, F)

Series	A +.030 −.010	B min.	C min.	D max.	E min.	F ±.303	G min.	H max.	I min.	J ±.030	K max.	L max.	M max.	N ±.050	P ±.025	Q max.	R ±.025 −.005	S max.
50	.500	.435	.026	.158	.405	.510	.177	.325	.560	.655	.175	.460	.900	....	....	....	.490	.690
70	.700	.485	.026	.187	.405	.610	.188	.369	.568	.782	.187	.680	1.150	....	....	....	.680	1.000
90	.900	.640	.114	.260	.520	.790	.320	.484	.730	1.010	.235	.845	1.525	....	....	....	.885	1.345
125	1.250	.750	.114	.260	.455	.700	.250	.427	.605	.850	.175	1.185	1.837	1.350	.580	1.133	....	....
175	1.750	.750	.114	.260	.520	.850	.320	.489	.740	1.070	.240	1.690	2.468	1.758	.780	1.527	....	....

Stock No.	Mfr's Type	Shaft Dia. In.	Shaft Dia. mm	Fig.	EACH 1-24	EACH 25-199	EACH 200-999	EACH 1000-Up
904-3009	50-1-1G	.125	3.17	A	1.53	1.01	.87	.76
904-3010	50-1WD-1G	.125	3.17	A	1.88	1.24	.99	.94
904-3011	50-2-1	.125	3.17	B	1.25	.83	.66	.62
904-3012	50-2-1G	.125	3.17	B	1.75	1.17	.94	.88
904-3013	50-2WD-1G	.125	3.17	B	2.10	1.40	1.12	1.05
904-5010	70-1-2	.250	6.35	A	1.80	1.19	.95	.89
904-5011	70-1-2G	.250	6.35	A	2.03	1.35	1.08	1.01
904-5012	70-1WD-2G	.250	6.35	A	2.43	1.62	1.30	1.21
904-5013	70-2-2	.250	6.35	B	1.88	1.24	.99	.94
904-5015	70-2-2G	.250	6.35	B	2.10	1.40	1.12	1.05
904-5016	70-2WD-2	.250	6.35	B	1.58	1.05	.84	.78
904-5243	70-3-2	.250	6.35	C	2.25	1.51	1.21	1.13
904-5244	70-3-2G	.250	6.35	C	2.30	1.54	1.23	1.16
904-5245	70B-3-2G	.250	6.35	C	2.53	1.69	1.35	1.28

Stock No.	Mfr's Type	Shaft Dia. In.	Shaft Dia. mm	Fig.	EACH 1-24	EACH 25-199	EACH 200-999	EACH 1000-Up
904-5081	70-3BL-2G	.250	6.35	C	5.83	3.88	3.11	2.92
904-5246	70-3CB-2G	.250	6.35	C	2.00	1.34	1.08	1.01
904-5250	70-4-2G	.250	6.35	F	1.88	1.24	.99	.94
904-5260	70-5-2	.250	6.35	E	1.88	1.24	.99	.94
904-5261	70-5-2G	.250	6.35	E	2.10	1.40	1.12	1.05
904-5014	90-1-2G	.250	6.35	A	1.98	1.32	1.06	.99
904-5270	90-3-2G	.250	6.35	C	2.43	1.61	1.29	1.21
904-5155	90-4-2G	.250	6.35	F	2.13	1.42	1.13	1.07
904-5156	G90-4-2G‡	.250	6.35	F	2.00	1.34	1.08	.88
904-5161	90-5-2G	.250	6.35	E	2.30	1.54	1.23	1.16
904-5330	125-3-2G	.250	6.35	C	2.53	1.68	1.34	1.27
904-5136	125-6-2G	.250	6.35	D	4.95	3.30	2.64	2.48
904-5138	175-6-2G	.250	6.35	D	5.48	3.65	2.93	2.74
.....	.....	....	....	..	....	....	....	....



ROUND ALUMINUM KNOBS

Round aluminum knobs. For use on receivers, test equipment, hi-fi systems —any electrical equipment. All have straight knurl except Type 310-20, diamond knurl. All fit ¼" shaft. Have anodized aluminum finish. With 6-32 set screws, except Type 310-20 which has 8-32 set screws. 2 oz.

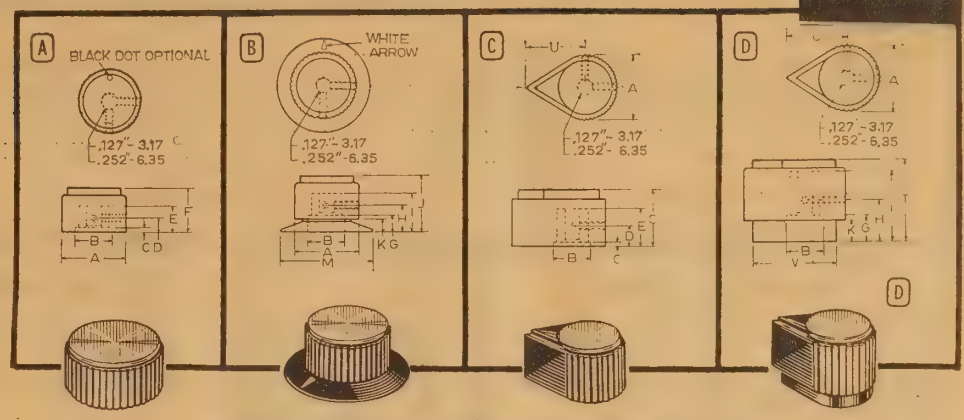
Stock No.	Mfr's Type	Fig.	EACH 1-24	EACH 25-49	EACH 50-149	EACH 150-Up
971-0153	1000-20	A	1.58	1.17	1.03	.92
971-0101	500-20	B	1.33	.98	.86	.78
971-0100	310-20	C	2.12	1.57	1.39	1.25
971-0104	625-20	D	1.48	1.09	.96	.86

Knobs and Accessories

DESIGNER LINE ROUND AND POINTER KNOBS

Knobs have aluminum caps and black polycarbonate bases. Strong rust resistant aluminum inserts. Comes with two set screws: 4-40 UNC-3A on 70 series, 8-32 UNC-3A on all others. *Prefix indicates diameter: 70-¾"; 90-1"; 125-1¼". Suffix G indicates matte (dull) finish, all other knobs have mirror finish. "BD" in type number indicates black dot.

Stock No.	Mfr's Type	Shaft Dia. In.	Shaft Dia. mm	Fig.	EACH 1-24	EACH 25-199	EACH 200-999	EACH 1000-Up
904-5422	DS70-1-2G	.252	6.40	A	1.95	1.30	1.04	.98
904-5443	DS70-3-2G	.252	6.40	B	2.35	1.56	1.25	1.18
904-5444	DS90-3-2	.252	6.40	B	2.55	1.72	1.37	1.28
904-5445	DS90-3-2G	.252	6.40	B	2.65	1.75	1.40	1.32
904-5446	DS125-3-2	.252	6.40	B	3.30	2.20	1.76	1.65
904-5455	DS70-4-2G	.252	6.40	C	2.38	1.58	1.27	1.19
904-5457	DS90-4-2G	.252	6.40	C	2.75	1.86	1.49	1.39
904-5461	DS70-5-2G	.252	6.40	D	2.93	1.86	1.49	1.39
904-5421	DS70-1-2	.250	6.35	A	1.93	1.28	1.03	.96
904-5423	DS70-1BD-2G	.250	6.35	A	2.20	1.46	1.18	1.10
904-0123	DS70-3-2	.250	6.35	B	2.28	1.52	1.22	1.14



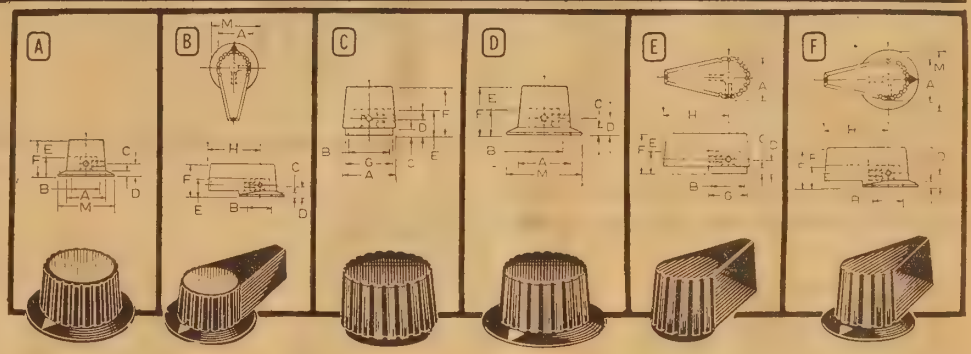
DIMENSIONS FOR DESIGNER SERIES CONTROL KNOBS

Series	A +.030 −.010	B min.	C min.	D max.	E min.	F ±.030	G min.	H max.	I min.	J ±.030	K max.	L max.	M max.	N ±.050	P ±.025	Q max.	R ±.030	S ±.030	T ±.030	U −.025 −.005	V max.
DS70	.700	.485	.026	.187	.405	.590	.188	369	.568	.780	.187	.630	1.150	—	—	·	—	.590	.765	.680	1.000
DS90	.900	.640	.114	260	.520	.735	.320	.484	.730	.980	.235	.845	1.525	—	—	—	—	.735	.970	.885	1 345
DS125	1.250	.750	.114	.260	.455	.620	.250	.427	.605	.785	.175	1.185	1.837	1.350	.580	1.133	.850	—	—	—	—

400 SERIES AND PANELRAMA SERIES KNOBS

The 400 Series and the Panelrama Series knobs are made of durable, high-impact acrylonitrite-butadiene-styrene (ABS). 400 Series has lusterless finish, containing bushings and set screws, 4-40 UNC-3A. Panelrama Series has black matte finish capped with an epoxy-coated aluminum disk. Contains circular shaft metal inserts with two 6-32 UNC-2A set screws. Shaft hole size: 1—⅛"; 2—¼". *Prefix 407—¾" dia.; 409—⅞" dia.; 412—1¼" dia.; PS7—¾" dia. Suffix colors: K1-black; K1R-black with aluminum cap.

Stock No.	Mfr's Type*	Fig.	EACH 1-24	EACH 25-199	EACH 200-999	EACH 1000-Up
904-5383	407R2K1	C	1.03	.59	.54	.48
904-5392	407D2K1	D	1.08	.61	.57	.51
904-5395	409D2K1	D	1.18	.67	.63	.56
904-5397	412D2K1	D	1.68	.96	.89	.79
904-5401	409P2K1	E	1.90	1.09	1.01	.89
904-5290	407D1K1	D	1.13	.64	.61	.53
904-5405	407PD2K1	F	1.35	.77	.72	.64
904-5210	PS7D2K1R	A	1.65	.94	.88	.78
904-5214	PS7PD2K1R	B	1.93	1.10	1.02	.90

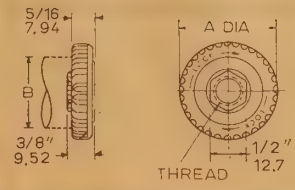


DIMENSIONS FOR 400 SERIES AND PANELRAMA SERIES KNOBS

Series	A +.025 −.005	B min.	C min.	D max.	E min.	F ±.030	G max.	H max.	J max.	K max.	M max.
PS7	.720	.520	.120	.290	.625	.813	.640	1.120	·····	····	1.050
407	.720	.520	.120	.290	.625	.813	.640	1.120	·····	····	1.050
409	.875	.660	.120	.290	.625	.813	.800	1.375	1.540	.500	1.270
412	1.250	1.041	.120	.290	.625	.813	1.170	2.000	1.540	.500	1.710

KNOB LOCKS

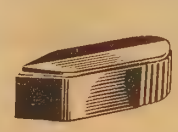


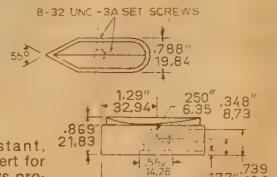


Knob locks used only with standard round and pointer knobs. *Splash proof, all others standard. Knob diameter: 70—¾", 90—1", 125—1¼". Thread: ⅜-32.

Stock No.	Mfr's Type	A In.	A mm	B In.	B mm	EACH 1-24	EACH 25-99	EACH 100-199	EACH 200-Up
904-5185	KL701	1	25.4	.721	18.3	2.25	1.49	1.34	1.19
904-5186	KL701G	1	25.4	.721	18.3	2.40	1.54	1.43	1.23
904-5190	KL703G*	1	25.4	.721	18.3	5.60	3.69	3.32	2.95
904-5192	KL901G	1⅜16	33.3	.928	23.5	3.03	1.98	1.78	1.58
904-5196	KL1251G	1⅝	41.2	1.269	32.2	3.03	1.98	1.78	1.58

BAR POINTER KNOB





High impact, crack resistant, polycarbonate with alum. insert for max. strength. Two set screws provided.

Stock No.	Mfr's Type	Shaft Dia. In.	EACH 1-24	EACH 25-199	EACH 200-999	EACH 1000-Up
904-5358	125-7-2G	.252	2.78	1.85	1.47	1.39

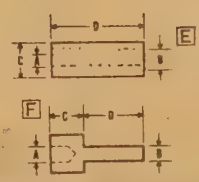
STURDY FLEXIBLE ⅛" SHAFTS



⅛" shafts with ¼" hubs ½" long. Phosphor bronze. For connecting out-of-line shafts. Provides up to 90° angular-control with no backlash. Shpg. wt. 2 oz.

Stock No.	Mfr's Type	Lgth. (In.)	EACH 1-24	EACH 25-49	EACH 50-99	EACH 100-Up
920-0151	151	3	2.03	1.55	1.35	1.04
920-0152	152	6	2.30	1.80	1.49	1.30

SHAFT FITTINGS



Couplings for extending shafts; extenders for decreasing or increasing shaft diameter and length. †Brass, nickel-plated. 1 oz. Supplied with set screws

Stock No.	Mfr's Type	Fig.	Dimensions (Inches) A	B	C	D	EACH 1-9	EACH 10-49	EACH 50-99	EACH 100-Up
920-0120	120†	E	¼	¼	7/16	⅜	.54	.43	.36	.31
920-0150	150†	F	¼	¼	½	1¼	.88	.70	.59	.50
920-0160	160†	F	¼	¼	½	⅜	.68	.54	.45	.38

Quality Hardware

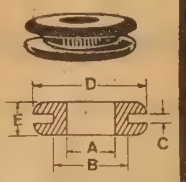
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HIGH QUALITY GROMMETS

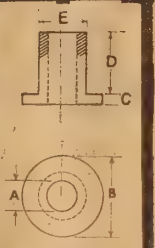
RUBBER

Available in a wide variety of sizes to meet any application. **Package of 100.** Av. shpg. wt. per 100. 8 oz.



Stock No.	Mfr's Type	A In.	B In.	C In.	D In.	E In.	PER PKG. OF 100 1-9	10-24	25-Up
920-2185	2185	1/8	3/16	1/16	5/16	3/16	3.15	2.40	2.16
920R2172	2172	3/16	5/16	1/16	7/16	3/16	2.97	2.38	1.98
920R2170	2170	1/4	5/8	1/16	5/8	1/4	3.38	2.70	2.25
920-2174	2174	5/16	7/16	1/16	5/8	1/4	3.24	2.59	2.16
920R2175	2175	3/8	1/2	1/16	21/32	1/4	3.38	2.70	2.25
920-2177	2177	7/16	9/16	1/16	3/4	1/4	3.38	2.70	2.25
920-2186	2186	1/2	3/4	1/16	1 1/16	5/16	7.16	5.72	4.77
920-2187	2187	5/8	7/8	1/16	1 1/8	5/16	7.29	5.83	4.87
920-2188	2188	9/16	13/16	1/16	1 1/16	5/16	7.16	5.72	4.77
920-2189	2189	3/4	7/8	1/32	1	5/32	7.02	5.62	4.68
920-9010	91103	3/16	15/32	1/8	9/16	3/8	4.46	3.56	2.98
920-9014	91116	5/16	1/2	1/8	3/4	3/8	6.75	5.40	4.51
920-9018	91107	3/8	7/16	3/32	5/8	5/16	7.50	6.00	5.01
920-9022	91112	49/64	13/32	1/16	15/8	5/16	22.50	18.00	15.03

NYLON SPACER BUSHINGS

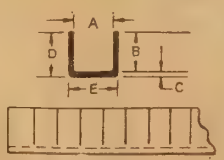


Tough spacer bushings are molded of corrosion-resistant nylon. Non-conductive; ideal for use where insulation of electronic components is essential. Meet **MIL-P-20683A** specifications. Can be used for mounting variable capacitors above the chassis, for mounting sub-panels, etc. **Sold in packages of 100 only.** Av. shpg. wt. per 100, 8 oz.

Stock No.	Mfr's Type	I.D. (A)	B In.	C In.	D In.	E In.	PRICE PER PKG./100 1-9	10-24	25-Up
920-2534	2534	#4 (.115)	.235	3/64	1/4	.147	3.11	2.48	2.07
920-2535	2535	#6 (.140)	.290	3/64	1/4	.170	3.24	2.59	2.16
920-2536	2536	#8 (.170)	.344	1/16	3/8	.205	3.38	2.70	2.25
920-2537	2537	#10 (.200)	.399	1/16	3/8	.260	3.65	2.92	2.43
920-2538	2538	1/4 (.260)	.513	1/16	3/8	.312	4.05	3.24	2.70

EXTRUDED "CATERPILLAR" GROMMETS





DIMENSIONS

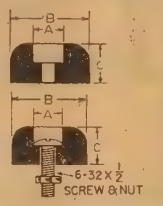
No.	A	B	C	D	E
2692	.052	.150	.040	.190	.125
2693	.085	.155	.045	.200	.162
2694	.125	.175	.045	.220	.206

Shape your own grommets to fit any size or shape opening. Made of non-conductive Black Nylon, Type 6/6, fungus resistant to conform to MIL-M-20693A, Type 1. Available in 25 Ft. rolls for panel thickness .052 to .125. **STD. PKG. 1**

Stock No.	Mfr's Type	STD. PKG. OF 1 1-4	5-9	10-49	50-Up
920-2692	2692	13.50	10.80	9.02	7.67
920-2693	2693	15.53	12.42	10.37	8.82
920-2694	2694	16.20	12.96	10.82	9.20

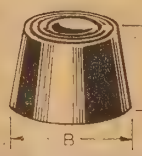
RECESS RUBBER BUMPERS

Recess rubber bumpers for military, industrial and commercial applications. Types 2195 thru 2198 (Fig. B) are supplied with ½" mounting screw and hex nut, for panels up to ¼" thick. Screw has 6-32 thread except 2195, which has 8-32 thread. *With molded-in metal washer. **Package of 100.** Av. shpg. wt. per 100, 8 oz.



Stock No.	Mfr's Type	Fig.	A In.	B In.	C In.	PRICE PER PKG. OF 100 1-9	10-24	25-99	100-Up
920R2192	2192	A	1/4	1/2	1/4	2.43	1.94	1.62	1.38
920R2193	2193	A	1/4	5/8	5/16	4.05	3.24	2.71	2.30
920-2194	2194	A	9/32	3/4	3/8	4.73	3.78	3.16	2.68
920-2184	2184	A	9/32	5/8	9/32	4.73	3.78	3.16	2.68
920-2135	2135	A*	3/8	31/32	3/8	6.75	5.40	4.50	3.86
920-2195	2195	B*	3/8	31/32	3/8	13.50	10.80	9.00	7.71
920-2196	2196	B	1/4	1/2	1/4	9.45	7.56	6.31	5.37
920-2197	2197	B	1/4	5/8	5/16	10.80	8.64	7.21	6.13
920-2198	2198	B	9/32	3/4	3/8	12.15	9.72	8.12	6.90

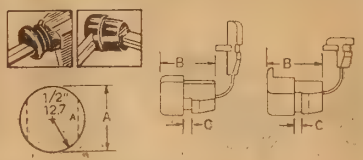
VINYL CABINET BUMPERS



All molded bumpers with brass insert to absorb screw load. Molded of Ethylene vinyl. Excellent for use on military, industrial and commercial equipment. Color: Black.

Stock No.	Mfr's Type	Screw Size	A	B	PER PKG. 100 1-9	10-24	25-Up
920-9026	2182	6	7/16	3/4	9.75	7.00	6.51
920-9028	2183	8	5/8	15/16	13.50	10.80	9.02

NYLON STRAIN RELIEFS

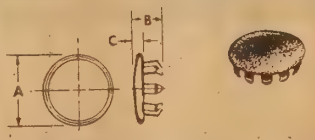


A = Chassis Hole
B = Length
C = Max. Chassis Thickness

Straight thru style nylon strain reliefs. Rugged one-piece construction absorbs pull and twist. Wire full anchored and insulated at chassis entrance. Sold in packages of 100.

Stock No.	Mfr's Type	Wire Type	Approx. Wire Size	A	B	C	PRICE PER PKG. OF 100 1-9	10-24	25-Up
920-0938	938	SP-1, SPT-1	.12x.22	.437"	.410"	.062"	6.00	4.80	4.01
920-0939	939	SV, SVT, HPD	.250-.290	.500"	.438"	.100"	6.75	5.40	4.51
920-0822	822	SPT-1, SPT-2, SP-2, HPN	.12-.30	.500"	.406"	.062"	9.00	7.20	6.01
920-0823	823	SJ, SJT, SJO	.365-.360	.625"	.580"	.062"	14.25	11.40	9.52

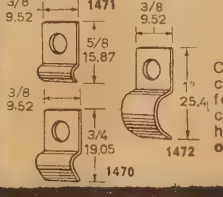
SNAP BUTTON HOLE PLUGS



Metal plugs for covering punched or drilled holes. Spring action prongs are nickel plated steel; give a firm grip. *Type 656 is vented. **Package of 100.** Av. shpg. wt. 8 oz.

Stock No.	Mfr's Type	Hole In.	A In.	B In.	C In.	PRICE PER PKG./100 1-9	10-24	25-Up
920-0650	650	1/4	13/32	15/64	1/16	5.40	4.00	3.61
920-0651	651	5/16	7/16	1/4	1/16	5.40	4.00	3.61
920-0652	652	3/8	1/2	15/64	1/16	5.40	4.00	3.61
920R0653	653	1/2	21/32	9/32	5/64	6.75	5.00	4.51
920-0654	654	5/8	13/16	19/64	5/64	6.10	6.00	5.41
920-0655	655	3/4	63/64	19/64	51/64	8.10	6.00	5.41
920-0608	608	7/8	1 1/16	19/64	1/16	9.45	7.00	6.31
920-0612	612	1	1 9/64	21/64	3/32	10.80	8.00	7.21
920-0656	656*	1	1 5/32	13/64	3/64	31.50	28.63	23.62

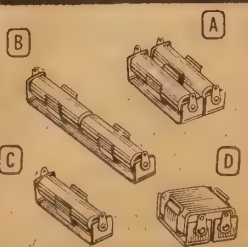
CABLE CLAMP HOLDERS



Cadmium plated steel cable clamps in choice of three sizes for ⅛", ¼" or ½" diameter cables. Each has a #8 mounting hole. **Sold in packages of 100 only.** Av. shpg. wt. per 100, 8 oz.

Stock No.	Mfr's Type	Cable Dia., In.	L. In.	W. In.	PRICE PER PKG./100 1-9	10-24	25-Up
920-1471	1471	⅛	⅝	¾	1.35	1.00	.89
920R1470	1470	¼	¾	¾	1.48	1.10	.85
920-1472	1472	½	1	⅜	1.62	1.20	1.05

BATTERY HOLDERS



Low-cost, lightweight and sturdily constructed. Have good electrical contact along with low-leakage current. Snap-fit clips hold batteries securely. 2024T3 spring temper aluminum, nickel-plated brass contacts. Batteries within chart rules are in same size group. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Holds No.	Holds Type	Burgess	Eveready	Mallory	EACH 1-19	20-Up
839-3239	139	C	1	AA	Z, HG9	E9, E12	RM12R, ZM9	.43	.25
839-3240	140*	A	2	AA	CD6, 9R	E91, E133	TR133, M-15F	.72	.44
839-3285	185†	B	2	C	302599	635, 935	302599	.75	.46
839-3276	176*	A	2	D	210	D99, A100, 950	Mn-1300	.80	.48
839-3303	203P	D	1	9V	2U6	1604	216	.75	.46

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SHOULDER WASHERS



Fiber. MIL-F-1148A. Grade CH. Shoulder height, .031. *I.D. x O.D. 4 oz.

Stock No.	Mfr's Type	*Size Inches	PER PKG./100 1-9	10-Up
920-2150	2150	.141x.375	2.03	1.62
920-2153	2153	.141x.312	2.03	1.62
920-2154	2154	.253x.500	2.16	1.73
920-2155	2155	.167x.375	2.03	1.62
920-2156	2156	.194x.375	2.16	1.73
920-2157	2157	.378x.750	3.65	2.92
920-2158	2158	.385x.625	3.11	2.48
Natural Nylon. Per MIL P-20693A.				
920-2660	2660	.141x.375	2.97	2.38
920-2664	2664	.253x.500	4.46	3.56
920-2666	2666	.194x.375	2.97	2.38
920-2667	2667	.378x.750	6.49	5.19

FLAT WASHERS



Fiber. MIL-F-1148A. Grade CH. 1/16" thick. Avg. weight 2 oz. **Pkg. of 100.**

Stock No.	Mfr's Type	*Size Inches	PER PKG./100 1-9	10-Up
920-2160	2160	.141x.250	1.22	.97
920-2161	2161	.115x.250	1.22	.97
920-2162	2162	.141x.375	1.22	.97
920-2163	2163	.169x.375	1.35	1.08
920-2164	2164	.196x.375	1.35	1.08
920-2165	2165	.253x.500	1.35	1.08
920-2168	2168	.385x.625	1.76	1.40
920-2169	2169	.378x.750	2.57	2.05
Nylon. MIL-P-20693A. 1/16". Type 2515: .047". Type 2517: .062". 2676: 3/32". 2 oz.				
920-2672	2672	.141x.375	1.89	1.51
920-2515	2515	.141x.312	1.62	1.30
920-2673	2673	.170x.375	1.89	1.51
920-2517	2517	.196x.437	2.43	1.94
920-2675	2675	.253x.500	2.84	2.27
920-2676	2676	.253x.500	4.46	3.56

Steel, nickel plated. All 1/32" thk. except * 3/64". **Pkg. of 100.**

Stock No.	Mfr's Type	I.D. In.	O.D. In.	PER PKG./100 1-9	10-Up
920R1149	1149	#4	1/4	.95	.76
920R1150	1150	#6	3/8	.95	.76
920R1151	1151	#8	3/8	.95	.76
920R1152	1152	#10	3/8	.95	.76
920-1147	1147*	1/4"	9/16	.95	.76
920-1148	1148	3/8"	5/8	.95	.76

COUNTER SUNK WASHERS



Brass, nickel plated. **Pkg. of 100.** 2 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1115	1115	#6	2.57	2.05
920-1116	1116	#8	2.61	2.09
920-1117	1117	#10	2.70	2.16

NYLON SCREWS



Round Head. Natural color. 8 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-2522	2522	4-40x1/2	6.08	4.86
920-2526	2526	6-32x3/8	6.08	4.86
920-2527	2527	6-32x3/4	6.08	4.86
920-2531	2531	8-32x1/2	6.08	4.86

BINDING HEAD. Shpg. wt. 8 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-2502	2502	4-40x1/2	6.08	4.86
920-2505	2505	6-32x1/2	6.08	4.86
920-2507	2507	6-32x3/4	6.08	4.86
920-2511	2511	8-32x1/2	6.08	4.86

SPADE BOLTS



Steel cadmium plated. #6 hole. Av. shpg. wt. 8 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1500	1500	6-32x1/4x3/4L	12.29	9.10

INTERNAL LOCKWASHERS

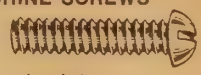


Steel, cadmium plated. *Narrow rim. **Pkg. of 100.** 2 oz.

Stock No.	Mfr's Type	I.D. In.	O.D. In.	PER PKG./100 1-9	10-Up
920-1118	1118	#2	3/16	1.22	.97
920R1127	1127	#4	1/4	1.13	.90
920R1128	1128	#6	5/32	1.10	.88
920-1129	1129	#8	11/32	1.10	.88
920-1130	1130	#10	3/8	1.13	.90
920-1132	1132	1/4"	15/32	1.85	1.48
920-1146	1146*	15/32"	19/32	2.84	2.27

MACHINE SCREWS

ROUND HEAD



Steel, cadmium plated. 3 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1173	1173	2-56x1/4	1.62	1.30
920-1174	1174	2-56x1/2	1.85	1.48
920-1175	1175	2-56x3/4	1.96	1.57
920-1183	1183	4-36x1/2	1.98	1.58
920-1350	1350	4-40x1/4	1.85	1.48
920-1352	1352	4-40x1/2	1.98	1.58
920-1354	1354	4-40x3/4	2.12	1.69
920-1000	1000	6-32x1/4	1.64	1.31
920-1001	1001	6-32x3/8	1.69	1.35
920-1002	1002	6-32x1/2	1.78	1.42
920-1355	1355	6-32x5/8	1.89	1.51
920-1356	1356	6-32x3/4	1.98	1.58
920-1357	1357	6-32x1	2.21	1.76
920-1358	1358	6-32x2	4.61	3.69
920-1006	1006	8-32x1/4	2.07	1.66
920-1007	1007	8-32x3/8	1.94	1.55
920-1008	1008	8-32x1/2	2.07	1.66
920-1010	1010	8-32x5/8	2.23	1.78
920-1359	1359	8-32x3/4	2.43	1.94
920-1360	1360	10-32x1/2	2.48	1.98
920-1361	1361	10-32x3/4	2.88	2.30
920-1362	1362	10-32x1	3.31	2.65

BINDING HEAD



BINDING-HEAD MACHINE SCREWS

All have extra-wide shoulder for binding-in lugs on speaker terminals. Steel, cadmium plated. **Packages of 100.** 3 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1369	1369	2-56x1/4	1.71	1.37
920-1370	1370	2-56x1/2	1.85	1.48
920R1372	1372	4-40x1/4	1.85	1.48
920R1373	1373	4-40x1/2	1.98	1.58
920R1374	1374	4-40x3/4	2.16	1.73
920-1375	1375	6-32x3/16	1.89	1.51
920R1425	1425	6-32x1/4	1.64	1.31
920R1426	1426	6-32x3/8	1.64	1.31
920R1427	1427	6-32x1/2	1.78	1.42
920R1377	1377	6-32x3/4	1.98	1.58
920-1378	1378	8-32x5/16	2.03	1.62
920-1429	1429	8-32x3/8	1.94	1.55
920R1430	1430	8-32x1/2	2.07	1.66
920R1380	1380	10-32x1/2	2.48	1.98

STEEL HEX NUTS



Cadmium-plated, except 1196. 1199 brass—nickel plated 4 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920R1363	1363	2-56x9/16	1.96	1.57
920-1364	1364	3-48x3/16	1.96	1.57
920-1398	1398	4-36x1/4	1.91	1.53
920R1365	1365	4-40x1/4	1.91	1.53
920R1179	1179	6-32x1/4	1.91	1.53
920R1180	1180	6-32x9/16	1.91	1.53
920R1366	1366	8-32x1/4	1.91	1.53
920R1181	1181	8-32x9/16	2.30	1.84
920R1367	1367	10-32x3/8	2.45	1.96
920-1368	1368	1/4-20x7/16	3.85	3.08
920-1199	1199	3/8-32x1/2x9/32	3.38	2.70
920-1196	1196	15/32x9/16x9/64	3.26	2.61

BRASS HEX NUTS



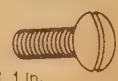
Nickel plated. **Pkg. of 100.** 8 oz.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1168	1168	4-40x1/4	1.78	1.42
920-1189	1189	6-32x1/4	1.78	1.42
920-1190	1190	6-32x5/16	2.50	2.00
920-1192	1192	8-32x5/16	2.38	1.91
920-1193	1193	10-32x5/16	2.48	1.98
920-1187	1187	1/4-32x7/16	3.51	2.81

NYLON HEX NUTS

Pkg. of 100. (4 oz.)

920-2554	2554	4-40x1/4	10.80	8.64
920-2555	2555	6-32x5/16	10.80	8.64
920-2556	2556	8-32x11/32	10.80	8.64



Oval head. Steel, nickel plated 1 lb.

Stock No.	Mfr's Type	Size Inches	PER PKG./100 1-9	10-Up
920-1382	1382	6-32x3/4	2.07	1.66
920-1383	1383	8-32x3/4	2.63	2.11
920-1111	1111	10-32x1/2	3.40	2.72

EXTERNAL LOCKWASHERS



Steel, cadmium plated. **Pkg. of 100.**

Stock No.	Mfr's Type	I.D. In.	O.D. In.	PER PKG./100 1-9	10-Up
920R1139	1139	#4	1/4	1.13	.90
920R1140	1140	#6	5/16	1.10	.88
920R1141	1141	#8	3/8	1.10	.88
920-1142	1142	#10	13/32	1.13	.90
920-1144	1144	1/4	1/2	1.85	1.48
920-1143	1143	3/8	11/16	2.48	1.98

LOCKING TERMINAL LUGS

A wide selection of the most widely used locking terminal lug styles with hole sizes #4 through #10. Designed for broad usage in military, industrial and commercial applications. Average weight per 1000. 1 lb.

Stock No.	Mfr's Type	L	Thickness	Hole	Fig.	PER PKG./1000 1-4	5-Up
920-1438	1410-4	1/8	.018	#4	A	15.00	12.25
920R1439	1410-6	1/8	.018	#6	A	15.00	12.25
920-1440	1410-8	1/8	.018	#8	A	15.00	12.25
920-1441	1410-10	57/64	.018	#10	A	15.00	12.25
920-1442	1410-14	13/16	.018	1/4"	A	15.00	12.25
920-1443	1412-4	5/8	.018	#4	C	15.00	12.25
920-1444	1412-6	5/8	.018	#6	C	15.00	12.25
920-1445	1412-8	5/8	.018	#8	C	15.00	12.25
920-1446	1413-4	23/32	.018	#4	D	15.00	12.25
920-1447	1413-6	25/32	.018	#6	D	15.00	12.25
920-1448	1413-8	23/32	.018	#8	D	15.00	12.25
920-1449	1414-6	13/16	.018	#6	E	15.00	12.25
920-1450	1414-8	13/16	.018	#8	E	15.00	12.25
920-1451	1414-10	53/64	.018	#10	E	15.00	12.25
920-1452	1415-6	41/64	.018	#6	F	15.00	12.25



HOT TINNED SOLDER LUGS

A complete assortment of the most widely used solder lug styles. *Phosphor bronze. †Brass. Average weight per 1000, 1 lb.

Stock No.	Mfr's Type	L	Thickness	Hole	Fig.	PER PKG./1000 1-4	5-Up
920-1453	1485-6*	17/32	.012	#6	K	12.00	9.80
920-1454	1486-6*	13/16	.012	#6	J	12.00	9.80
920-1455	1488-4*	9/16	.012	#4	L	12.00	9.80
920-1456	1488-6*	9/16	.012	#6	L	12.00	9.80
920-1457	1488-8*	9/16	.012	#8	L	12.00	9.80
920-1458	1490†	3/4	.020	#10	N	15.00	12.25
920-1459	1491†	15/16	.020	#10	P	25.00	20.40
920-1460	1493†	1 1/8	.027	1/4"	R	30.00	24.95
920-1461	1494-6†	5/8	.020	#6	M	13.00	10.60
920-1462	1495†	5/8	.020	#8	G	15.00	12.25
920-1463	1496†	3/4	.020	1/4"	H	15.00	12.25
920R1464	1497†	7/8	.017	3/8"	S	18.00	14.65

LOCKING



SOLDER





ALLIED'S HARDWARE

- FINEST OF MATERIALS
- MACHINED TO CLOSE TOLERANCES
- WIDE ASSORTMENT OF STYLES AND TYPES

Allied® Quality Hardware

BRASS SPACERS



Round spacers for raising sub-panels, chassis, variable capacitors, etc. Durable cadmium-plated brass. Precision machined; lengths and outer diameters accurate to ±1/32". Tapped bushings for threads indicated in tables. **Sold in packages of** 100 Av. shpg. wt., 6 oz.

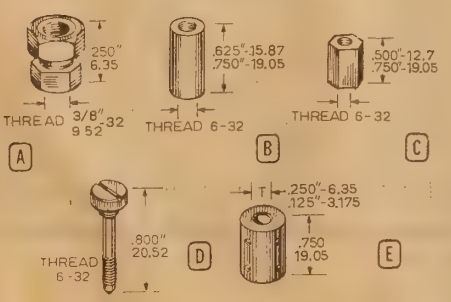
ROUND—NON-THREADED ¼" O.D.

Stock No.	Mfr's Type	Screw Size	Length Inches	PRICE PER PKG./100		
				1-3	4-9	10-Up
920-2200	8700	4	1/8	7.75	5.60	4.89
920-2240	2340	4	1/4	7.75	5.60	4.89
920-2241	2341	4	3/8	11.00	8.00	6.88
920-2242	2342	4	1/2	11.00	8.00	6.88
920-2201	8701	6	1/8	7.70	5.60	4.74
920-2204	8704	6	3/16	7.75	5.60	4.75
920-2210	2100	6	1/4	7.75	5.60	4.75
920-2207	8707	6	5/16	10.65	7.70	6.56
920-2211	2101	6	3/8	11.00	8.00	6.76
920-2212	2102	6	1/2	11.00	8.00	6.76
920-2213	2103	6	3/4	14.50	11.60	9.84
920-2214	2104	6	1	18.60	12.70	10.85
920-2215	2105	8	1/4	9.45	6.85	5.82
920-2217	2107	8	1/2	12.50	9.20	7.80
920-2218	2108	8	3/4	14.50	13.05	11.18
920-2219	2109	8	1	18.60	16.70	14.85

ROUND—THREADED ¼" O.D.

Stock No.	Mfr's Type	Thd.	Length Inches	PRICE PER PKG./100		
				1-3	4-9	10-Up
920-2270	2370	4-40	1/4	9.50	6.90	5.84
920-2271	2371	4-40	3/8	11.00	8.00	6.76
920-2272	2372	4-40	1/2	12.40	9.00	7.69
920-2273	2373	4-40	3/4	18.00	12.65	11.69
920-2274	2374	4-40	1	21.00	16.65	14.71
920-2220	2120	6-32	1/4	9.50	6.90	5.85
920-2221	2121	6-32	3/8	10.00	7.25	6.18
920-2222	2122	6-32	1/2	12.40	9.00	7.69
920-2223	2123	6-32	3/4	18.00	16.20	13.88
920-2224	2124	6-32	1	21.00	13.65	11.72
920-2227	2127	8-32	1/2	12.40	8.55	7.69
920-2228	2128	8-32	3/4	18.00	12.65	11.69
920-2229	2129	8-32	1	21.00	13.65	11.72

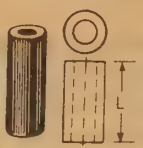
INSTRUMENT PANEL HARDWARE



Shaft lock is illustrated in Figure A; threaded standoffs in Figure B and C; chassis fastens in Figure E; captive panel screw in Figure D, shaft coupling in Figure E. In the table heading below, "T" indicates either the type of thread or the recommended board thickness. "X" in the table head indicates the hardware shank length except *maximum shaft diameter and †overall length. All are brass with cadmium plating, except Type 1510. Type 3200-6 and Series 3316 are brass with nickel plating. All are specially designed for high reliability performance and low cost. These low prices let you buy in quantity and save Average shipping weight per pkg of 25, 6 oz. Pkg of 25

Stock No.	Mfr's Type	Fig.	T In.	X In.	PRICE PER PKG. OF 25		
					1-3	4-19	20-Up
971-0451	1510	A	3/8-32	.250	12.02	10.60	9.20
971-0471	B1564-3/8	B	6-32	.625†	4.00	2.60	2.35
971-0472	B1564-3/4	B	6-32	.750†	4.75	3.10	2.80
971-0476	B1575-1/2	C	6-32	.500†	2.81	1.83	1.65
971-0477	B1575-3/4	C	6-32	.750†	4.69	3.48	3.05
971-0517	3200-6	D	6-32	.800†	12.00	8.15	7.35
971-0521	3316A	E	.250*	.750†	29.25	25.75	23.15

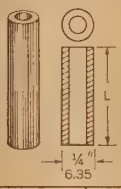
FIBER SPACERS



Round fiber bushings for screw sizes indicated in table. **Meet MIL-F-1148A, Grade CH** specifications. Ideal for use in raising sub-panels, chassis, capacitors, transformers, etc. in electronic assemblies. Have ¼" outside diameter. **In packages of** 100. Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Screw Size	Length Inches	PRICE PER PKG./100		
				1-3	4-9	10-Up
920-8880	8880	4	1/8	7.02	5.05	4.32
920-8883	8883	4	3/16	7.83	5.65	4.82
920-2235	2335	4	1/4	8.50	6.15	5.24
920-2236	2336	4	3/8	10.50	7.65	6.48
920-2237	2337	4	1/2	12.40	8.95	7.65
920-2238	2338	4	3/4	12.60	11.30	10.05
920-2239	2339	4	1	15.50	13.90	12.75
920-8881	8881	6	1/8	7.00	5.05	4.32
920-2030	2130	6	1/4	8.50	6.18	5.24
920-8887	8887	6	5/16	9.55	6.90	5.90
920-2031	2131	6	3/8	10.50	7.60	6.48
920-2032	2132	6	1/2	12.40	8.95	7.65
920-8896	8896	6	5/8	10.60	9.55	8.81
920-2033	2133	6	3/4	12.60	11.30	10.40
920-2034	2134	6	1	15.50	13.45	12.85
920-2040	2140	8	1/4	25.00	20.80	19.29
920-2042	2142	8	1/2	12.40	8.30	7.65
920-2043	2143	8	3/4	12.60	11.30	10.46
920-2044	2144	8	1	15.50	13.95	12.87

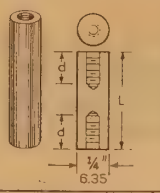
ALUMINUM SPACERS



¼" O.D. tubular spacers with precision machined ends, lengths accurate to ±.005". Aluminum with iridite finish (meets **MIL-C-5541** specifications). Ideal for raising sub-panels, chassis, etc. Inside diameter for #4 screws is .113"; for #6 screws, .140". **Sold in packages of** 100 **only.** Av. shpg. wt. 6 oz.

Stock No.	Mfr's Type	Screw Size	Length Inches	PRICE PER PKG./100		
				1-3	4-9	10-Up
920-8481	8481	4	1/4	8.10	5.80	4.99
920-8483	8483	4	1/2	10.80	7.80	6.65
920-8401	8501	6	1/4	8.10	5.85	4.99
920-8403	8503	6	1/2	10.80	7.85	6.65
920-8405	8505	6	3/4	10.00	8.80	8.31
920-8407	8507	6	1	12.00	10.80	9.97

ALUMINUM POSTS



Round .250" O.D. metallic rods tapped through, or at each end. Support and separate components or structural members without need for long screws or machine nuts. Aluminum with iridite finish. Length and O.D. within ±.005" tolerance. *Minimum full-thread depth. **Sold in packages of 100 only.** Av. shpg. wt. 3 oz.

Stock No.	Mfr's Type	Thd.	Length Inches	*d	PRICE PER PKG./100		
					1-3	4-9	10-Up
920-8323	8323	4-40	1/2	Thru	12.00	8.25	7.48
920-8327	8327	4-40	1	1/4	14.00	12.50	11.63
920-8329	8329	4-40	1 1/2	1/4	18.00	14.95	14.12
920-8343	8343	6-32	1/2	Thru	12.00	8.10	7.48
920-8345	8345	6-32	3/4	Thru	11.00	9.90	9.14
920-8347	8347	6-32	1	3/4	14.00	12.50	11.63
920-8349	8349	6-32	1 1/2	3/4	17.00	15.15	14.12
920-8351	8351	6-32	2	3/4	19.00	16.95	15.54

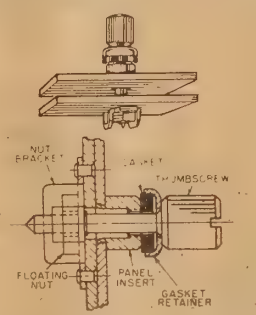
BRASS AND NYLON THREADED RODS



Threaded rods for a variety of applications in electronic and electrical equipment. Weather-proofed; can be used in outdoor equipment. Supplied in one-foot lengths. Av. shpg. wt. 9 oz.

Stock No.	Mfr's Type	Desc.	Thread	EACH	
				1-9	10-Up
920-1400	1400-1	Brass	6-32	1.22	.97
920-1401	1401-1	Brass	8-32	1.22	.97
920-1402	1402-1	Brass	10-32	1.22	.97
920-1403	1403-1	Brass	1/4-20	1.22	.97
920-1432	1420-1	Nylon	6-32	1.62	1.30
920-1434	1421-1	Nylon	8-32	1.76	1.40
920-1436	1422-1	Nylon	10-32	2.02	1.62
920-1437	1423-1	Nylon	1/4-20	2.43	1.94

CAPTIVE HARDWARE

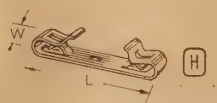


Stainless steel corrosion-free fastening hardware meets **MIL-E-16400 (Ships)** specifications, and will meet the requirements of **MIL-E-5400** and **MIL-P-11268 (Sig C)** when painted or dulled in accordance with these specifications. The complete captive assembly consists of a slotted head thumb screw, an insert bushing for securing the thumb screw to the panel, a captive floating nut assembly which is fastened to the chassis member of rack, and a gasket retainer and rubber gasket for use where a dustproof, splash-proof seat is required. Av. shpg. wt. 2 oz.

Stock No.	Mfr's Type	Description	Screw Size	EACH			
				1-99	100-499	500-999	1000-Up
904-0011	CS 101	3/4 Thumbscrew	8-32 NC-2	1.05	.69	.59	.53
904-0611	PIN-102	.119-.156 PL. Ins.	8-32 NC-2	.53	.35	.33	.29
904-0576	NB 100	Nut Bracket	8-32 NC-2	.28	.18	.16	.14
904-0403	GS 103	Gasket	8-32 NC-2	.13	.09	.08	.07
904-0407	GSR 118	Gasket Retainer	8-32 NC-2	.28	.15	.14	.12

SPRING CLIPS

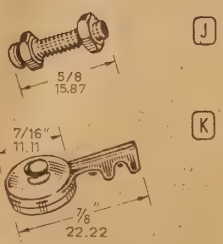




These tough little spring clips offer positive, reliable contact. They are very easy to connect and disconnect. All are precision-machined from brass and burr-free. Type 535 is nickel-plated. Lightweight, only 1 oz.

Stock No.	Mfr's Type	Fig.	Length	Width	Max. Wire	Mtg. Hole	EACH		
							1-99	100-999	1000-Up
920-9000	534	F	1"	3/8"	#10	#8	.08	.06	.05
920-0586	533	F	3/4"	5/16"	#14	#6	.05	.04	.03
920-0588	535	H	1 1/2"	5/16"	#14	#6	.22	.17	.14

SNAPS AND STUDS



Used to make or break temporary electrical connections in an instant. **Ideal** for fast testing of circuits. Equally suitable for permanent wire connections when you're in a hurry. Carefully designed for many applications in industrial and commercial uses. Snap connectors (K) fit threaded studs (J), listed below. May be cascaded together for multiple connections. Snaps have solder lug. Stud has threaded screw shaft with nut. Can be used for either panel or chassis mounting. Shipping weight per 100, 12 oz. **Sold in packages of 100.**

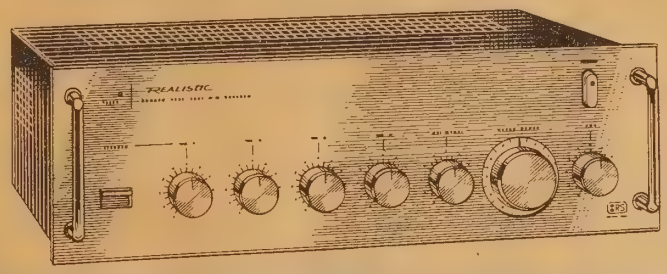
Stock No.	Fig.	Description	Size (In.)	PRICE PKG. OF 100		
				1-9	10-24	25-Up
873R0810	K	Snaps	7/16 Dia. x 7/8 Lgth	16.03	13.63	12.77
873R0812	J	Threaded Stud	6-32 thd. x 5/8"	14.00	11.20	9.35

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100 WATTS RMS PA AMPLIFIER



• 4 Mike Inputs • Input for Aux/Magnetic Phono
• Constant-Voltage Output Transformer

MPA-100. Provides all the power and versatility needed for maximum coverage of auditoriums, large meeting halls and remote locations. Five mixable inputs—four mikes plus aux/phono—each having a calibrated volume control. Master volume and tone controls give full tonal command whenever it is needed. The "Priority Paging" switch for Mike-1 overrides all inputs for instant pushbutton paging. The constant-voltage transformer lets you add or remove speakers as you like—impedance mismatching is a thing of the past. A "Line Out" position allows a high-level feed to a tape recorder or to an additional MPA-100 amplifier for larger sound reinforcement installations. An automatic protection circuit cuts off audio power output if an overload occurs while a red warning light flashes on. The unique "Whisper Page" switch on the rear panel lets you filter out microphone reverberation in acoustically reflective rooms or auditoriums. Pushbutton power on-off switch. Outputs: 4, 8, 16-ohm speakers; 25 and 70-volt line. Power: 100 watts RMS at 8 ohms. Response: 100-10,000 Hz at full power. Size: 5½x16x11½". All-metal case. For 120 VAC. UL listed.

910-0009 Type 32-2023 ..... **199.95**



MODEL 32-2020 SOLID-STATE 20-WATT PA AMPLIFIER

Has 117 VAC line cord and 12 VDC power cord, for indoor or mobile use. Two mixing mike inputs. Controls: volume, phono/auxiliary, master volume, tone. Adjustable bracket for under-dash mounting. Aluminum panel, black metal case. UL listed. Power output: 20 watts at 4, 8, 16 ohms; plus 25 and 70 volt line output. Input impedance: 100,000 ohms for microphone and phono. Sensitivity: microphone, 3 mV; aux and phono, 270 mV. Response: ±1 dB, 20-20,000 Hz (at full power, 200-10,000 Hz). Size: 3x10x7½". Shpg. wt. 12 lbs.

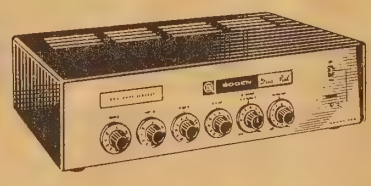
910-0011 ..... **Each 79.95**



C SERIES ALL-SILICON SOLID-STATE 100-WATT PA AMPLIFIERS

Model C100. Complementary transistor circuitry. Has inputs for two Hi-Z mikes (filtered) and two high-level aux.; mixes two mikes and one aux. Music muting capability. Power Output: 100 watts. Sensitivity: mike, 3 mV; aux, 0.15V for full output. Outputs: 4, 8 and 16 Ω bal.; 25V and 70V bal. line; tape, booster amplifier jack; two plug-in speaker sockets and screw terms. Controls: master vol., two mike gain, aux. gain, bass and treble. Steel Cabinet. 14⅜x13¾x3¾" (37.1x34.9x9.5 cm). 117 VAC. Wt. 18 lbs. (8.2 kg).

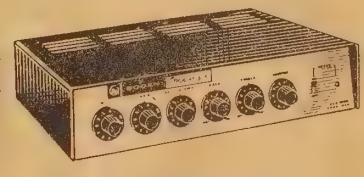
733R0083 .... **Ea. 221.75** **4-Up** .... **Ea. 199.50**
Model C35. 35 watts. 14 lbs. (6.4 kg).
733-0081 ..... **Ea. 164.25** **4-Up** .... **Ea. 147.75**



MODEL CHS 100A SOLID-STATE 100-WATT PA AMPLIFIER

Model CHS 100A. Two mike and two separate aux inputs. Mike inputs can be high-imped. bal., low-imped. unbal., or low-imped. bal. (w/ optional plug-in transformer). One mike input converts to mag. cartridge; mike inputs take XLR-3-11 connector. Two output plugs. Power: 100W. Freq. Res.: ±2 db, 70-12,000 Hz. Outputs: 4, 8 and 16; 25V center-tapped and 70V bal. lines; tape output, 1000. Controls: mike 1, mike 2, aux 1, aux 2, master vol., bass, treble, and power switch and pilot light. 16⅜x13¾x4¾" (41.6x34.9x12.1cm). 117 VAC; 26 lbs. (11.8 kg).

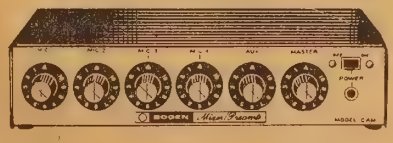
733-1030 ... **Ea. 264.95** **4-Up** ... **Ea. 238.40**



MODEL CT60-60 WATT SOLID STATE PA AMPLIFIER

Model CT60. Electronic compressor; anti-feedback equalizer, four Hi-Z mike inputs (each convert to Lo-Z) and two aux inputs. Simultaneously mixes five inputs; four mikes and tuner, tape recorder or phonograph. Power Output: 60 W. Freq. Res.: 50 Hz-15 kHz, ±2 db. Sensitivity (full output): Hi-Z mike, 3 mV; Lo-Z mike, 0.3 mV; aux, 0.15V; bridging input, 30 mV. Outputs: 4, 8 and 16 Ω speaker taps; 25V c.t., 70V bal. lines. Tape, booster and bridging outputs. 500/600 Ω telephone line input or output w/WMT-1 optional accessory. Controls: Four mike vol., Aux 1/Aux 2 (fader), master vol., five equalizer filter slide controls, compressor, power switch. 16⅜x13¾x4¾" (41.59x34.92x12.06 cm). Wt. 22 lbs. (9.98 kg).

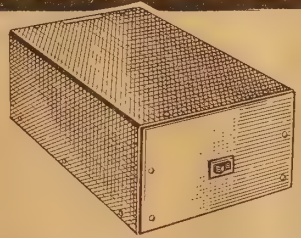
733-0090. 1-3 . **Ea. 315.95** **4-Up** .... **Ea. 284.30**



MODEL CAM SOLID-STATE MIXER-PREAMPLIFIER

Model CAM. The CAM Mixer-Preamplifier easily and economically adds input and flexibility of control to any sound system. Provides a microphone for every individual who needs one, even if located at a distance from the main amplifier. Solid-state, with silicon transistors used throughout to assure reliability. Four microphone inputs and one auxiliary input for radio tuner, tape recorder, crystal or ceramic phono cartridge. Each input has its own individual volume control and convenient master control. **Rated Output:** 2.5v. hi imped output. 125mv hi imped mic output. 12.5mv low imped mic output. **Frequency Response:** Flat ±2db 20-20,000Hz. **Distortion:** Less than 1% at rated output. **Equiv. Input Noise:** 123db below 1 volt. **Power Consumption:** 120v. 60Hz. .02 amps. 24-28vdc .01 amps. **Dimensions:** 11⅜×2⅞×7¾" (28.9×7.3×19.17 cm). **Weight:** 5 lbs. (2.3 kg).

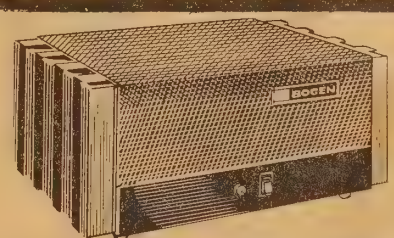
733-1080. 1-3 ..... **Each 128.25** **4-Up** ..... **Each 112.00**



MODEL MT125B SOLID-STATE BOOSTER 125-WATT AMPLIFIER

Model MT125B. The solid-state booster amplifier is designed for use in quality sound reinforcement systems serving such applications as auditoriums, stadiums, sports arenas, school buildings, and transportation terminals. Booster combines outstanding power-handling capability over the entire audio range with ample power reserve to overcome high ambient noise conditions and is suited for industrial applications where booster may be operated continuously at full rated output. Outputs of identical models may be connected in series to provide any reasonable power required. Includes all silicon transitors. **Power Output:** 125 watts. **Frequency Response:** ±2 db, 40 Hz to 20 kHz. **Rated Sensitivity:** Hi Z: 0.2 v, Lo Z: Balanced with TL600 Xfmr: .045 v. **Power Consumption:** 120 v AC, 50/60 Hz, 300 w. 48-56 v DC, 2.25 amps. **Overload Protection:** AC circuit breaker, DC circuit breaker, thermal breaker. **Dimensions:** 8×6½×13", (20.3×16.5×33.0 cm). **Weight:** 28 lbs. (1.3 kg).

733-1090. 1-3 ..... **Each 316.75** **4-Up** ..... **Each 267.75**

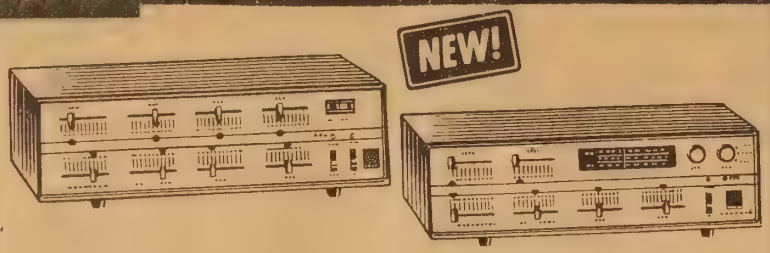


MODEL MT250 SOLID-STATE 250-WATT BOOSTER AMPLIFIER

Model MT250. Solid-state booster amplifier incorporates electronic short circuit protection. Booster amplifier is designed for quality sound reinforcement systems. Combines outstanding power handling capability over the entire audio range with ample power reserve to overcome high ambient noise conditions and is suited for industrial applications where booster may be operated continuously at full rated output. An excellent choice for many industrial and laboratory applications requiring a 120 volt power source at selected frequencies. High impedance input as well as facility for optional plug-in transformers to provide either a low-impedance inputs or bridging input. **Power Output:** 250 watts. **Freq. Response:** ±2 db, 20 Hz to 20 kHz. **Rated Sensitivity:** Hi Z: 0.3 v, Lo Z: Balanced with TL600 Xfmr: .075 v. **Power Consumption:** 120 v AC, 50/60 Hz, 600 w, ±24 v DC, 10 amps. **Dimensions:** 17×7×12¼" (43.2×17.8×31.1 cm). **Weight:** 60 lbs. (2.7 kg).

733-1100. 1-3 ..... **Each 599.95** **4-Up** ..... **Each 520.20**

PA Amplifiers, Radio Paging System & Wireless Mikes



MODEL POWER PLUS 120

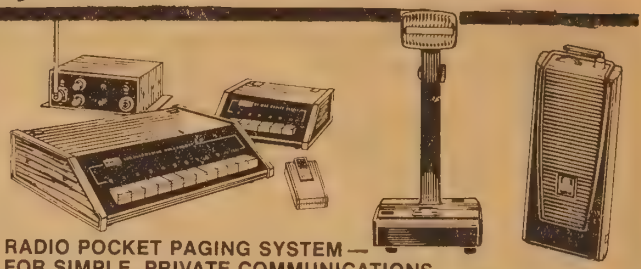
Features of the Power Plus 120 are: all silicon transistors and I.C. circuits with wide safety-margin ratings, resettable safety circuits protects units from shorts, opens or overdrives, extra microphone channels — switchable to high or low impedance, priority page built-in on mic-2 and unique slide controls and memory markers. Power Output: 120 watts RMS at 5% THD. Frequency Response: 30-20,000 Hz at 3 dB Points. Noise: −70 dB. Sensitivity: Aux/Tuner—400mV, Mic—(Hi Z) 5mV, Mic—(Lo Z) .5mV, Mag Phono — 4mV. Front Panel Controls: 4 Mic Volume, 1 Master Volume, 1 Aux/Tuner (Fader), 1 Bass/1 Treble, 1 Mag In/Mic 3 and 1 Power On/Off. Unit operates on 117VAC, 60 Hz. 4, 8 and 16 ohm outputs as well as both 25V and 70V balanced line outputs. Size: (HxWxD): 5x15¾x12⅛" (125x400.05x307.97mm) Net wt. 25 lbs. (11.35kg).

790-7000. 1-3 ..... **Each 285.00** **4-Up** ..... **Each 255.00**

MODEL POWER PLUS 35T WITH AM/FM TUNER BUILT-IN!

The Power Plus 35T is similar to the above 120 in the high-quality of its performance plus AM/FM tuner and can be operated on 12-volt DC power for mobile use. Power Output: 35 watts RMS at 5% THD. Frequency Response: 20-16,000 Hz at 3 dB Points. Noise: −70 dB. Sensitivity: Aux/Tuner—400mV, Mic—(Hi Z) 5mV, Mic—(Lo Z) .5mV and Mag Phono — 4mV. Front Panel Controls: 3 Mic Volume, 1 Master Volume, 1 Aux/Tuner, 1 Bass/1 Treble, 1 Mag In/Mic 3, 1 Power On/Off. Unit operates on 117VAC, 60 Hz. 4, 8 and 16 ohm outputs as well as both 25V and 70V balanced line outputs. Tunes AM band, 540-1650 KHz and FM band, 88-108 MHz. Size (HxWxD): 5x15¾x12⅛" (125x400.05x307.97mm). Net wt. 25 lbs. (11.35kg).

790-7100. 1-3 ..... **Each 266.95** **4-Up** ..... **Each 240.00**



RADIO POCKET PAGING SYSTEM — FOR SIMPLE, PRIVATE COMMUNICATIONS

Provides simple, radio controlled communications to selected personnel within your building, or up to half a mile away from a central location. Personnel to be contacted simply keep a compact receiver in their pocket or clipped to belt. When anyone needs to be contacted, the switchboard operator presses a specified button on the central selector console, and a beep signal is emitted by the individual's receiver until it is turned off. Paging system is easy to install, easy to operate.

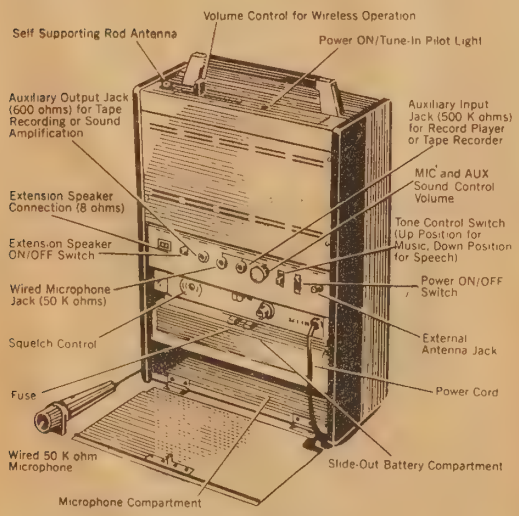
COMPONENTS: Model TXVP-201 5-watt crystal controlled transmitter uses Class C Citizens Band signal on 27.255 MHz frequency. For 117VAC. **Model VEN-20** Selector Console offers a capacity of up to 20 pocket paging units; finished in black walnut wood grain end panels. Each **Model PG101R** Pocket Paging Receiver is constructed of lightweight, high-impact tan styrene plastic; only 3½x1¾x¾"; weighs 2 ounces. Has distinctive "beep" signal and reset switch, convenient pocket clip, on-off switch. Built-in operation battery tester. Powered by two mercury batteries that provide up to 500 hours of life. **Model VPR-201** Voice Paging Receiver hears its own exclusive tone-call, signals user with pleasant warbling signal. Merely depress a button to cancel tone and receive message. Comes equipped with nickel cadmium batteries for overnight charging. Measures 2⅜x4¾x1½", weight 7 ounces. **Model VPM-1** Voice Pager Microphone may be used with console to deliver voice message to paged party.

Stock No.	Model No.	Description	Dimensions, HxWxD	EACH
790-2000	TXVP-201	Radio Transmitter	2¾x8¾x7"	265.00
790-2010	VEN-20	Selector Console	2¾x6¾x8¾"	240.00
790-2020	PG-101R	Paging Receiver	3½x1¾x¾"	130.00
790-2030	VPR-201	Paging Receiver	2⅜x4¾x1½"	150.00
790-2040	VPM-1	Pager Microphone	.....	52.00
790-2050	CHVPR1	Charger for VPR	.....	51.00
790-2060	AN-201	Antenna for TXVP-201	.....	20.00

COMPONENTS FOR WIRELESS PA SYSTEMS

Wireless Sound Systems consist of a cordless mike, tuner/amplifier and speaker. And that's it! Unless—you want to add extra speakers, a record or tape player or convert an existing wired PA system by adding a tuner. Everything is light and compact—just move the components where you need them. Choice of battery or AC operation. Never again will you be tied down by wires—this PA system surpasses ordinary systems and give you real "freedom of speech!"

10-WATT TUNER/AMPLIFIER

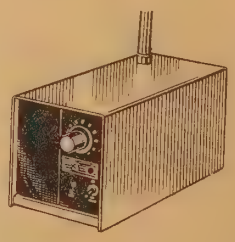


MODEL WA-313 1-CHANNEL UNIT. Briefcase size, power enough for most inside or outside PA jobs, battery or AC operation. Features a sensitive crystal-controlled tuner, full-response amplifier and speaker and automatic switching between AC and DC power. The latest FET/IC circuitry with ceramic filtering assures the best in PA performance. The squelch control maintains speaker silence when no signal is being received from a wireless mike. 16½x11½x5½". Operates on 120 VAC or 10 standard dry cell batteries (not included). Wt. 15 lbs.

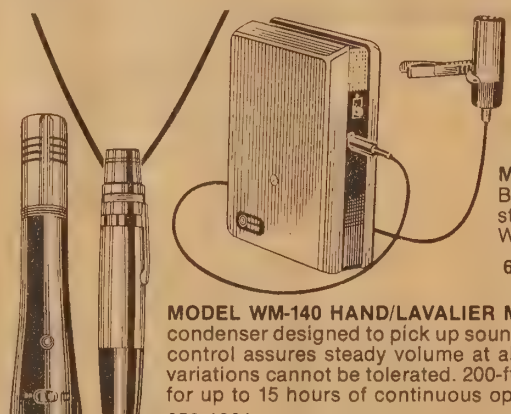
650-2001 ..... **Each 472.50**

1-CHANNEL WIRELESS TUNER

MODEL WT-402 1-CHANNEL TUNER. Convert your existing PA system to modern wireless operation with this unit that plugs into your amplifier and channels the signals from the wireless FM mikes to your speakers. Features crystal control to eliminate troublesome tuning. Has a pilot/tune-in light that stops "blinking" when a wireless mike is operating, squelch for silent standby when no mike is working, continuous tone control. Built-in telescoping antenna. Only frequency stocked is 40.68 MHz, all other frequencies are factory drop shipped. For 120 VAC.



650-5001 ..... **Each 262.50**



YOUR CHOICE OF 3 HIGH-QUALITY FM WIRELESS MIKES

MODEL WME HAND/LAVALIER MIKE. Broadcast quality and absolute frequency stability. 200-ft. range. May be clipped to belt. Weighs only 8 oz. 1½×3⅞". With battery.

650-1010 ..... **Each 270.00**

MODEL WM-140 HAND/LAVALIER MIKE. An excellent omnidirectional electret condenser designed to pick up sound from all directions. Built-in automatic gain control assures steady volume at all times — great for PA work where volume variations cannot be tolerated. 200-ft. range. Four H-D batteries provide 5.2 volts for up to 15 hours of continuous operation. $^{53}/_{64}$ x $^{57}/_{16}$". Wt. 0.18 lbs.

650-1001 ..... **Each 205.00**

MODEL WMA DELUXE HAND MIKE. High fidelity unidirectional mike rejects sound from sides and rear. 200-ft. range. Built-in automatic gain control for steady volume without manually "riding gain." Solid-state throughout. 9V cell provides up to 15 hours of continuous operation. 1⅝ x 10". Wt. 0.42 lbs.

650-1020 ..... **Each 220.00**

Microphones and Accessories



27.95

REALISTIC TRUE HI-FI MIKE

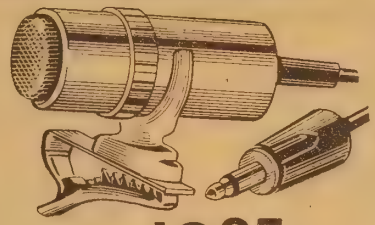
MODEL 33-1044 OMNIDIRECTIONAL CONDENSER MICROPHONE. Excellent frequency response, transient response and sensitivity. 30-15,000 Hz freq. responses, foil diaphragm and "pop" filter. Impedance, 600 ohms (usable with inputs up to 20,000 ohms). Powered by "AA" battery. Desk and floor stand adapter included.
910-8000. Shpg. wt. 5 lbs. .... **Each 27.95**

MODEL 33-1045 CARDIOID CONDENSER MIKE. Same as above, but with unidirectional sound pickup.
910-8001. Shpg. wt. 5 lbs. . . **Each 29.95**

49.95

REALISTIC "HIGHBALL" DYNAMIC CARDIOID MIKE

TYPE 33-983. Deluxe professional mike features smooth wire screen that eliminates troublesome wind and breath noises while cutting "popping" and "booming." Also suppresses feedback, reduces echo. Response, 50-15,000 Hz. Has On-Off switch. Impedance, 50-250, 50,000 ohms. Cannon body connector. Includes 15-ft. cable with universal plugs, screw-in ¼" phone plug adapter; MCIF Amphenol plug. Made in U.S.A.
910-0016. Wt. 5 lbs. ..... **Each 49.95**



19.95

OMNIDIRECTIONAL TIE-CLIP ELECTRET CONDENSER

MODEL 33-1056 OMNIDIRECTIONAL TIE-CLIP ELECTRET CONDENSER. High quality electret condenser is compact enough to fit almost anywhere. Inconspicuous as a lavalier microphone. Frequency response: 50-13,000 Hz. Impedance: 600 ohms. Comes equipped with miniature plug and battery. Size 9/16"x1½".
910-8051 . . . . . **Each 19.95**

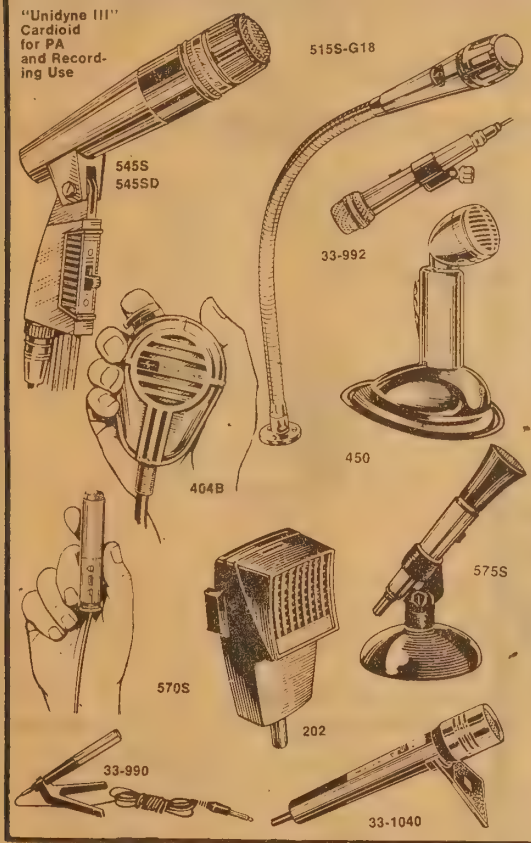


29.95

GOOSENECK DESK-STAND MICROPHONE

Model 33-921. Cardioid pickup—ideal for onstage panel discussions, desktop PA or paging, audio labs. Locking push-to-talk button. 600 ohms impedance. 200-10,000 Hz response. Output level: —78 dB. With 6' cable, ¼" phone plug, mini adapter.
910-8100 ..... **Each 29.95**

GENERAL-PURPOSE MICROPHONES



Models 545S and 545SD. "Unidyne III". Dynamic Mikes. Cardioid pickup pattern. Dynamic element with 50 to 15,000 Hz response. Impedance: 150 ohms or Hi-Z. Output: Low-Z, —57 dB; Hi-Z, —55 dB. **Model 545S.** The microphone is provided with swivel and a built-in on-off switch. 3-conductor shielded cable with male 4-pin connectors. Microphone mounts on a stand with ⅝"-27 thread. Size: (HDW) 4 13/16 × 5 13/16 × 15/64". (122.2×147.6×31.4 mm). Wt. 15 oz. (425 gm). **Model 545SD.** Microphone is provided with a built-in magnetic reed On-Off switch and a swivel adapter adjustable through 90° from vertical to horizontal and suitable for mounting on a stand with a ⅝"-27 thread. Provided with a 15 ft. (4.6 m) two-conductor shielded cable with female 3-pin connector. Chrome and black finish. Size (LxDia.) 6 3/16 × 1¼". (157×31.9 mm). Wt. 9 oz. (255 gm).
944-0546. Model 545S . . . . . **Each 80.40** **5-Up** . . . **Each 72.36**
944-4615. Model 545SD. . . . **Each 80.40** **5-Up** . . . **Each 72.36**

Model 515SB-G18. "Unidyne B" Microphone. Low impedance cardioid. Designed specifically for flexible gooseneck applications. On-Off non-lock switch controls mike and relay or control circuit. Cartridge shock mounted. For mounting on a flexible gooseneck having ⅝"-27 thread. 51" (1.3m) four-conductor, two-shielded, cable. Response: 80-13,000 Hz. —59 dB. Chrome. Size: (LxDia.) 25 x 1 15/32". (635 x 37.3mm). Wt. 2¼ lbs. (1021gm).
944-0536 . . . . . **Each 42.45** **5-Up** . . . . . **Each 38.20**

Type 33-990 Realistic Pencil-Thin Microphone. For desk-stand or lavalier. Response: 100-10,000 Hz. Impedance: 10,000 ohms. With 6-ft. cable, ¼" phone plug. Wt. 1 lb.
910-0014 . . . . . **Each 13.95**

Type 33-1040 Cassette Recorder Mike. Dynamic cardioid directional mike with switch to start or stop recorder remotely. Response: 100-11,000 Hz. Impedance: 1000 ohms. With desk stand, cable and start-stop plugs.
910-8007 . . . . . **Each 12.95**

Type 33-992 Cardioid Dynamic Mike. General purpose; on-off switch. Wire mesh screen suppresses wind, breath. Impedance: 600 and 50,000 ohms. Response: 80-12,000 Hz. With slide-on mike stand adapter, 6-ft. cable, molded phone plug, chrome die-cast case. Wt. 3 lbs.
910-0019 . . . . . **Each 29.95**

Model 575S Controlled Magnetic Mike. Omnidirectional high impedance. Provided with On-Off switch. 7 ft. (2.1 m) one-conductor shielded cable. Response: 40-15,000 Hz. Output: —56 dB. Size (LxDia.) 7x1¾" (177.8x44.5 m). Wt. 1 lb (454 gm)
944-0430 . . . . . **Each 34.50** **5-Up** . . . . . **Each 31.05**

Model 450 Microphone. Controlled magnetic mike with grip-to-talk locking switch. Dual-impedance microphone with a 7 ft. (2.1 m) four-conductor shielded cable and a SPDT switch to control the microphone circuit and an external relay or control circuit. Response: 100-10,000 Hz. Output: —52.5 dB. Chrome and green finish. Size: (HWD) 9 5/16 x 5x7". (237x127x178 mm). Wt 3 lbs. 5½ oz. (1517 gm).
944-0520 . . . . . **Each 41.10** **5-Up** . . . . . **Each 36.99**

Model 202 Palm Microphone. Ceramic noise-cancelling mike. Use where high noise levels may cause problems in clear voice transmission. Response: 200-4000 Hz. High impedance. Output: —50 dB. Equipped with a heavy duty push-to-talk, non-locking switch. Three conductor, 1 conductor shielded, retractable cable that extends to 5 ft. (1.5m). Size: 4 x 2¼ x 1⅝". (101.6 x 57.2 x 41.3mm). Wt. 15 oz. (425gm).
944-0202 . . . . . **Each 18.45** **5-Up** . . . . . **Each 16.60**

Model 404B. Controlled Magnetic Hand Microphone. Press-to-talk switch and mounting bracket. Impedance: 150-200 ohms. Response: 200 to 4,000 Hz. Output: —50.0 to —76.0 dB. Four-conductor retractable cable, two-conductors are shielded. Gray case. Cable, attached, recoils to 1 ft. (0.3 m), extends to 6 ft. (1.5 m). Size: (LWD) 3 11/16 × 2⅝ × 1 25/32". (93.7 × 66.7 × 44.8 mm). Wt. 17 oz. (482 gm)
944-0405 . . . . . **Each 30.60** **5-Up** . . . . . **Each 27.54**

Model 404C. Same as above, but for high impedance 100,000 ohms or more. Output: —50.5 dB.
944-0406 . . . . . **Each 30.60** **5-Up** . . . . . **Each 27.54**

Model 570S. Lavalier Microphone. Low clothing and cable noise pickup. Small size, light weight, and has a distinctive appearance. Built-in On-Off switch. Rapid attachment and secure adjustment. Ruggedness and dependability under all operating conditions. Low impedance. Response: 50 to 12,000 Hz. Output: —60.5 dB. Provided with a 30 ft., 2-conductor shielded cable. Size: (LxDia.) 4 3/32 x 2⅝". (112.0 x 19.8mm). Wt. 1 lb., 1 oz. (482gm).
944-4600 . . . . . **Each 96.00** **5-Up** . . . . . **Each 86.40**

MICROPHONE ACCESSORIES



MIKE STAND ADAPTER

Type 33-371. This mike stand adapter can be used with any floor stand assembly. Made of high-impact styrene. Standard ⅝"-27 thread.
910-8105 . . . . . **Each 1.99**

BABY-BOOM STAND ATTACHMENT



Type 33-344. Baby-Boom stand attaches to any floor stand for "studio" results. Stand is 31" long and chrome-plated. Standard ⅝"-27 thread.
910-8130 . . . . . **Each 9.95**

13" FLEXIBLE GOOSENECK



Type 33-330. This flexible gooseneck connects to standard microphones. It will bend in any direction at any angle. Both ends are mountable on standard ⅝"-27 thread.
910-8115 . . . . . **Each 3.99**



LOW-PROFILE MICROPHONE STANDS

No need to worry about the microphones slipping from their proper height. Velvet-smooth "Sure-Grip" microphone stands have a clutch which adjusts from 34" to 62" and locks positively into place. Two-section chromed tubes with 10" diameter bases. Leveling shock absorber pads for placement anywhere and anti-tipover bumpers. Inner-lined with bakelite to prevent jamming, slipping. Standard ⅝"-27 threads connect to most microphones.

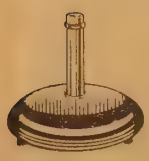
Type 33-320. Gray Cast Base. Wt. 10 lbs.

Type 33-321. Chrome Base. Similar to above, but has all chromed finish. 13 lbs.

910-8120. Gray Cast Base . . . . . **Each 15.95**
910-8125. Chrome Base . . . . . **Each 17.95**

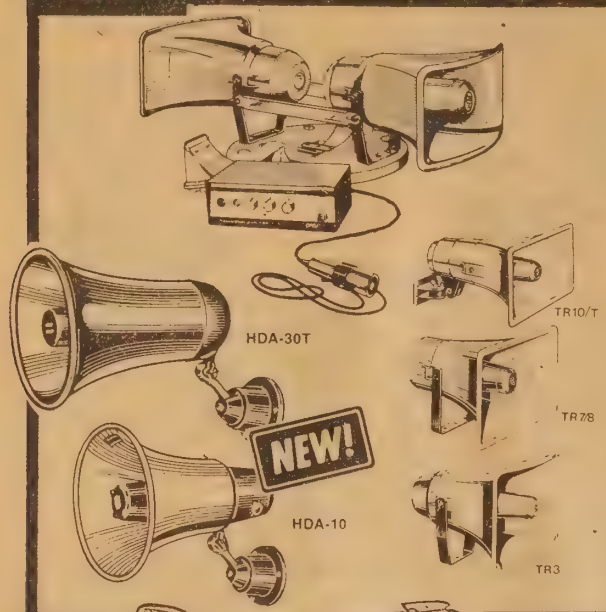


PADDED DESK STAND



Type 33-370. The padded bottom on this desk stand keeps it from scratching wood or similar finishes. Gun metal finish. Chrome tube is 4" in height. Standard ⅝"-27 thread.
910-8110 . . . . . **Each 5.99**

PA Speakers, PA System and Megaphones



50 WATT SOLID STATE MOBILE SOUND SYSTEM

Model MS50C. Sound system can be used on automobiles, trucks, buses or boats to transport your message everywhere. Complete, prepackaged, preassembled and prewired mobile sound system. Easy to install, no drilling or special tools required. The system consists of a mobile amplifier, two wide-angle horns premounted on a support base with mounting straps, a dynamic microphone and cigarette lighter attachment. Also, has an input for turntable or tape recorder and a tone control. Power: 50 watts. Supply: 12-14 VDC. Shpg. wt. 23 lbs.
898-6000 ..... **Each 249.95** **4-Up** ..... **Each 199.95**

20 WATT WIDE ANGLE PAGING AND TALK BACK SPEAKER

Model TR10/T. Heavy-duty, weatherproof wide angle reflex trumpet. Complete with high-compression, high efficiency driver. Features built-in 25 V and 70 V line transformer with rotary impedance selector. Field replaceable diaphragm. Dual swivel support for vertical and horizontal orientation. Power handling: 20 watts.
898-6200 ..... **Each 34.95**

PA SYSTEM SPEAKERS

Model HDA-30T "Multi-Tap". 30 watts-power taps 70.7 volt-line-30, 15, 7.5, 4.5 watts. 10" bell diameter. Excellent reproduction for general paging. Aluminum and baked enamel finish. Rugged speaker means dependability. Easy hook up of multihorn PA system. Has built-in matching transformers. Four different power selections. Rotate plug for power needed. Complete with molded plug and 18" speaker wires. Wt. 8½ lbs.
790-6000 ..... **Ea. 53.50** **4-Up .. Ea. 49.95**

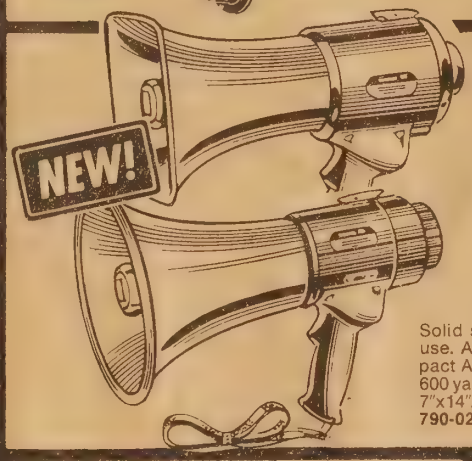
Model HDA-10. Compact high power speaker measures 10" diameter. 8 ohms. Improved low frequency response. Rated as 30 watts continuous output. Excellent response and acoustical output of voice and non-critical music. Full range swivel mount with positive locking action. Weight 5 lbs.
790-6100 ..... **Ea. 37.50** **4-Up .. Ea. 35.50**

20 WATT WIDE ANGLE PAGING AND TALK BACK SPEAKER

Model TR7/8. Heavy-duty, weatherproof wide angle trumpet. Compete with driver and mounting bracket. 8Ω input. Field replaceable diaphragm. Power handling: 20 watts.
898-6150 ..... **Ea. 26.58** **5-Up** ..... **Ea. 22.95**

WIDE ANGLE REFLEX TRUMPET STANDARD 1⅜" THREAD

Model TR3. All weather, heavy-duty, wide angle exponential reflex trumpet. Can be used with any standard driver. Sound dispersion 120°×60°. High impact non-resonant construction. Supplied with exclusive driver protection cover, mounting bracket.
898-6175 ..... **Ea. 34.74** **5-Up** ..... **Ea. 30.95**

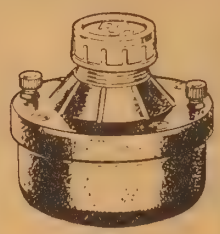


MEGAPHONES

Model MV-3P. A budget-priced megaphone. Extremely efficient, the high impact bell provides excellent projection. Weatherproof, noise cancelling microphone. Slide switch for high or low power. A convenient carrying strap is provided. Power output is 3 watts peak, 1.5 watts rated. 200 yard range. Uses 4 "D" batteries, not included. Dimensions: 6" square (8" diagonal) 12" long. Wt. 5 lbs.
790-0010 .... **Ea. 62.95** **4-Up** .... **Ea. 55.50**

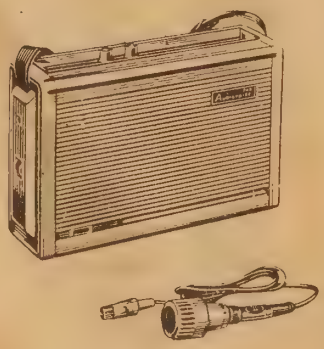
Model MV-9S. A compact powerhouse of sound, indispensable for police, fire, industrial and recreational applications. Built-in signal alarm can be used for general alert, fog horn or "mayday" calls. Solid state push-pull amplifier. Weatherproof for long lasting use. A convenient carrying strap is provided. Sturdy high impact ABS plastic. Power output is 10 watts peak, 8 watts rated. 600 yard range. Uses 6 "C" batteries, not included. Dimensions: 7"x14". Wt. 5 lbs.
790-0200 ..... **Ea. 110.95** **4-Up** ..... **Ea. 104.95**

30 WATT DRIVER FOR TRUMPETS STANDARD THREAD



Model UT2. High efficiency driver unit with standard 1⅜" thread. Mounts on all standard trumpets. New heavy duty magnet with high compression acoustic chamber. 16Ω input, response 85-12,000 Hz. Field replaceable diaphragm. Power handling: 30 watts.
898-6100 ..... **Each 26.50**

15-WATT PORTABLE SOUND SYSTEM



Model TA2. Complete portable sound system for sound reinforcement indoors or outdoors. Features a dynamic unidirectional microphone, volume and tone controls, input for tuner or tape, output for external speaker and shoulder strap. Acoustically engineered enclosure and the high efficiency speaker provide omnidirectional sound dispersion with a coverage well over 200 yards. Compact and lightweight — easy to carry and easy to store. Suitable for guided tours in museums, historic sites and art galleries; the possibilities for applications are endless. Operates on 8 standard "D" size flashlight batteries (not included). 12x8x3½". Shpg. wt. 4 lbs.
898-5000 ..... **Each 99.98**



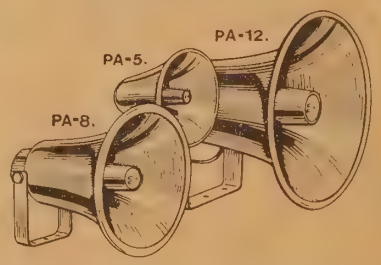
TRANSISTORIZED MEGAPHONES

Model ER332W. Built-in whistle signal. Easy, onehanded operation. Tough, built-to-last construction. Crisp, clear delivery. Rated 6 watts. Powered by flashlight batteries. Shpg. wt. 0.9 kg without batteries.
650-6000 ..... **Each 97.50**

Model ER-331S. Attention-getting, built-in siren signal. Bright red body with light reflecting bands ensure night visibility. Lightweight and ready for instant use. Rated 6 watts. Powered by flashlight batteries. Shpg. wt. 0.9 kg, without batteries.
650-6100 ..... **Each 107.50**

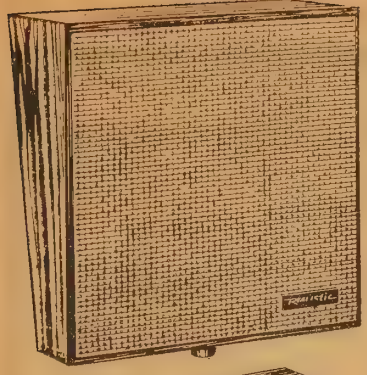
Model TA1. All weather solid-state power megaphone. Power output: 20 watts — 1000 yard range. Unidirectional dynamic microphone, shoulder strap and external volume control. Operates on six flashlight "C" batteries.
898-5500 ..... **Each 99.00**

MULTI-PURPOSE WEATHERIZED POWERHORNS

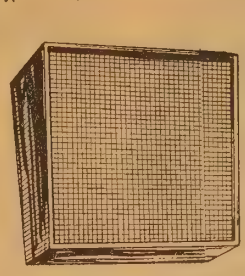


Designed and constructed to bring you full sound and clarity in any situation. Works effectively and clearly in any atmospheric condition all year round. Shock and rust resistant.
Model PA-5. 15-W 5". 200-13,000 Hz resp. 12 W peak. 8 ohms. 1 lb.
910-7097. Type 40-1236 ..... **Each 17.95**
Model PA-8. 15-W 8". 200-13,000 Hz resp. 25 W peak. 8 ohms. 5½ lbs.
910-7098. Type 40-1237 ..... **Each 29.95**
Model PA-12. 30-W 12". 150-13,000 Hz resp. 65 W peak. 8 ohms. 7 lbs.
910-7099. Type 40-1238 ..... **Each 34.95**

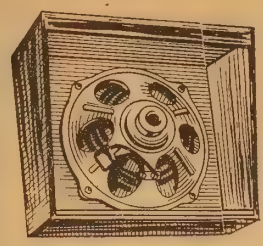
PA Speakers and Accessories



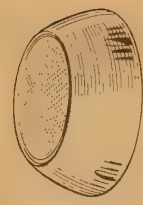
Type 40-219



AES-874

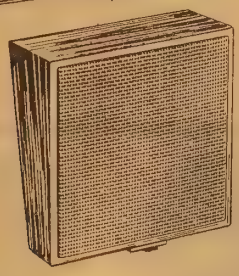


AES-872



OMNIDIRECTIONAL CEILING SPEAKER

Light beige, low profile housing lets this omnidirectional ceiling speaker go with any decor. 6½" (165.1mm) full range speaker delivers up to 8 watts music power. Screw terminal connections. Mounting hardware included. 8 ohms. 2¾x8¾" (69.85x222.25mm) diameter.
910-7130. Type 40-1246 ..... **Each 14.95**



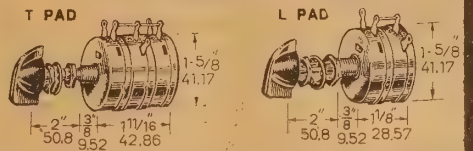
AES-873

PUBLIC ADDRESS ENCLOSED SPEAKERS

Realistic 8" Speaker and Baffle. High quality 8" (203.2mm) speaker, attractively mounted in a sleek walnut-finished wall mounting baffle. Delivers good sound reproduction without the bother of a separate speaker installation. Completely assembled, including a pre-wired L-pad volume control. Wt. 4 lbs. (113.3gms).
910-7111. Type 40-219 ..... **Each 13.95**
Two-Way Ceiling or Wall Baffle. This versatile baffle can be ceiling or wall mounted for your convenience. Baffle with 10 watt rms, 8" (203.2mm) speaker and 70 volt line matching transformer. Mag. wt.: 5 oz. Voice coil 1" (25.4mm).
520-0040. Type AES-874. 1-4 ..... **Each 32.23** **5-Up** ..... **Each 27.41**
Deluxe Wall Baffle. Excellent where quality background sound is essential. Baffle with 10 watt rms, 8" (203.2mm) speaker and 70 volt line matching transformer. Mag. wt.: 5 oz. Voice coil 1" (25.4mm).
520-0020. Type AES-872. 1-4 ..... **Each 24.83** **5-Up** ..... **Each 21.12**
Deluxe Wall Baffle. Same as above, except baffle has volume control knob.
520-0030. Type AES-873. 1-4 ..... **Each 28.69** **5-Up** ..... **Each 24.39**

POTENTIOMETERS AND ATTENUATORS

4-W CONSTANT-LOAD ATTENUATORS



Widely used to control the level of low-impedance audio circuits. Rated 4 W contin. DC; 15 W peak audio. Have 2" shafts. ⅜" dia. bushing. Bar knob. 0-10 dial plate. 7 oz. **T-Pad Attenuators.** Present a constant source-impedance as well as constant load. Size, 1⅝" dia. x 1 11/16".

Ohms	Stock No.	Type
8	854-6806	T8
500	854-6815	T500
600	854-6820	T600

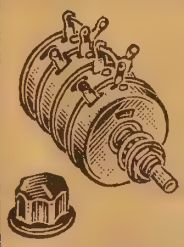
1-9 ..... Each 9.60 10-24 ..... Each 6.40
25-49 ..... Each 6.03 50-Up ..... Each 5.67

L-Pad Attenuators. Present a constant load-impedance at all control settings. Size, 1⅝" dia. x 1⅛" long.

8	854-5208	L8

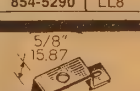
1-9 ..... Each 9.85 10-24 ..... Each 6.28
25-49 ..... Each 5.96 50-Up ..... Each 5.50

STEREO AND MONOPHONIC "L" PADS



Type "LL" Pads. For low-impedance stereo-audio. Rated 4 watts DC, 15 watts peak. Have 2 "L" pads on common shaft for adjusting two channels Size, 1⅝x2¼". Wt. 7 oz.
Type "LA" Pads. For level control in monophonic equipment. 4 watts DC, 15 peak. Maintains constant impedance With 1" bushing. 2 nuts, lock washers 1⅜ - 1⅛". 7 oz.

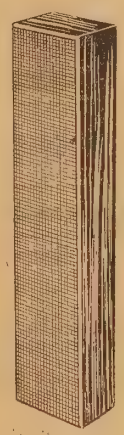
Stock No.	Mfr's. Type	Imp. Ohms	EACH 1-9	10-24	25-49	50-Up
854-5280	L8A	8	8.88	6.28	5.96	5.50
854-5290	LL8	8	12.07	11.49	10.90	10.06



CONTROL MOUNTING BRACKETS

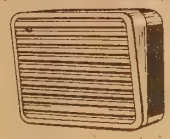
Mounting brackets with adjustable mounting centers available in two sizes: 2½" or 1¾" centers.

Stock No.	Type	Description	EACH
854-6410	RB249	Mtg. bracket, mtg. ctrs. 2½"	.18
854-6400	RB248	Mtg. Bracket, mtg. ctrs. 1¾"	.18



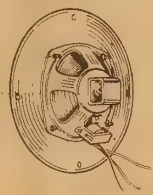
HEAVY-DUTY SOUND COLUMN

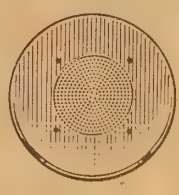
Model AES-890. Heavy-duty sound column with six 8" full range speakers. Excellent sound distribution qualities that are useful in commercial, educational and industrial applications. Provides uniform sound intensity even at varying distances from the sound column. Produces a sound pattern having a broad horizontal and a narrow vertical distribution. Rated 90 watts rms. Mag. wt.: 5 oz. Voice coil 1".
520-0050. 1-4 ..... **Ea. 128.94**
5-Up ..... **Ea. 109.64**



MOISTUREPROOF INDOOR/OUTDOOR SPEAKER

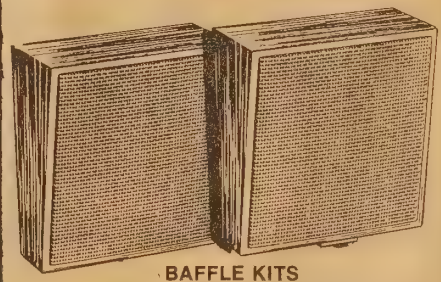
Portable 4" speaker has a heavy-duty Alnico V magnet for excellent sound reproduction. Durable lacquer-finish steel case with keyhole slots for easy mounting. Screw terminals. Completely moistureproof construction. Designed for easy installation. 8 ohms. 4¼ x 5¼ x 2⅜". Order two for stereo! Shpg. wt 1½ lbs
910-7090. Type 40-1227 ..... **Each 7.99**





12" ROUND CEILING BAFFLE

This 12" (304.8mm) round ceiling baffle is ideal for use in classrooms, offices, reception rooms and many other background music and paging applications. Baffle with 10 watt rms, 8" (203.2mm) speaker and 70 volt line matching transformer. Mag. wt.: 5 oz. Voice coil 1" (25.4mm).
520-0010. Type AES-871. **1-4** ..... **Each 21.36**
5-Up ..... **Each 18.16**

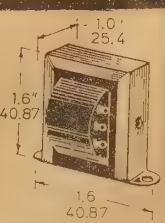


BAFFLE KITS

Deluxe Wall Baffle. Baffle for 8" (203.2mm) speakers. (Speaker not included).
520-0080. Type AEB-870. **1-4** ..... **Each 10.45**
5-Up ..... **Each 8.89**
Two-Way Ceiling or Wall Baffle. Baffle for 8" (203.2mm) speaker. (Speaker not included)
520-0090. Type AEB-869. **1-4** ..... **Each 18.42**
5-Up ..... **Each 15.66**

(A) REALISTIC 70-VOLT LINE TRANSFORMER

Type 32-1031. 10-watt primary. Taps at 10, 5, 2.5, 1.25 and .62 watts. Secondary impedance, 4 or 8 ohms. For driving speakers at various power levels from the same 70-volt line, simply change the transformer taps to achieve the power level you desire. Size: 1.6×1.6×1.0". Shipping weight 1½ lbs.
910-0013 ..... **Each 4.99**



(B) CONSTANT-VOLTAGE 70.7-V LINE-TO-VOICE-COIL TRANSFORMERS

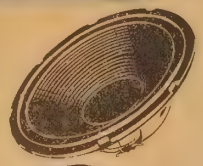
Secondary impedance: 4, 8, 16 ohms except *4, 8 ohms only. Shpg. wt. ¾ lb.

Stock No.	Mfr's Type	Fig.	Watt. Taps	Max. W.	Size HxWxD	Mtg. Ctrs.	EACH 1-9	10-49	Bulk 50-99	100-Up
705-0801	6W2HFL	B*	5, 2.5, 1.25, .62, .31	5	1⅜x2⅜x1½"	2"	7.50	4.43	4.00	3.14
705-0802	6W4HFL	B	10, 5, 2.5, 1.25, .62	10	1⅝x2 13/16x1⅝"	2⅜"	6.13	5.52	4.47	3.35
705-0804	6W6HFL	B	24; 12, 6, 3, 1.5, .75	24	2 1/4x3 11/16x2¼"	3⅛"	9.13	8.22	7.39	5.54



See Page 2 for the Allied Electronics Warehouse Nearest You

Speakers and Accessories





HIGH FIDELITY SPEAKERS

Especially designed for use in consoles, radio, TV or phonos, as replacement or extension speakers. Provides crisp, clean sound at a low cost. Choice of 4 sizes. All are woofers except * which are mid-range speakers. Has high temp. voice coil and high compliance foam surrounding for better sound reproduction. Ceramic magnet. 8 ohms.

Stock No.	Mfr's Type	Size In.	Watts (rms)	Mag. wt. oz.	Voice Coil	EACH 1-9	EACH 10-24	EACH 25-Up
520-1120	AEH-515 *	5	15	3	.75	11.80	9.44	8.49
520-1130	AEH-820*	8	20	5	1.0	13.10	10.48	8.75
520-1150	AEH-830	8	30	10	1.0	10.89	9.79	8.81
520-1160	AEH-1060	10	60	16	1.5	16.75	14.95	13.45
520-1180	AEH-15104	15	100	40	2.0	33.95	29.95	26.95

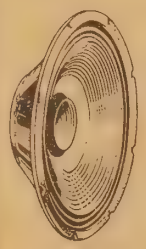


MUSICAL INSTRUMENT SPEAKER

15", 100 Watts. 2½-lb. ceramic magnet, 2" voice coil with multi-strand flexible leads anchored to cone. Resists fracture and burn out even at 100-watt surges. Phase coded solderless terminals. 8" deep. Free air resonance, 45 Hz. 8 ohms.

910-7150. Type 40-1315 ..... **Each 34.95**

REPLACEMENT HI-FI SPEAKERS



MODEL 40-1200 12" FULL-RANGE SPEAKER. Has internal dust seal that protects precision voice coil. Handles 30 watts power. Dependable ceramic-magnet construction. Features high-efficiency design with 50-11,000 Hz frequency response. Impedance, 8 ohms. Shpg. wt. 4½ lbs.

910-0021 ..... **Each 10.95**

SIX RANGE SOUND LEVEL METER



• Built-In Hi-Fi Condenser Microphone

You'll find dozens of uses for this versatile meter. Use it with a frequency equalizer to adjust your stereo system for a truly flat response in your listening room. Check noise levels in factories for compliance with governmental regulations. Or measure the sound level in your car or home. Features six ranges, from 60-126 dB, "A" and "C" weightings, plus slow and fast response for peak and average levels. With battery tester, audio output jack, and tripod mounting socket.

910-7210. 42-3019. ..... **Each 39.95**





FULL-RANGE PA SPEAKERS

Model AEP-620. 6" full-range speaker is completely preassembled and ready for installation. High-temperature 1.0 voice coil. 8 ohms. Edge treated cone for excellent frequency response. Ceramic magnet wt.: 5 oz. Wattage: 20 rms.

520-1010. 1-4 ..... **Each 9.00**
5-Up ..... **Each 7.95**

Model AEP-830. 8" full-range speaker built to deliver year-in, year-out dependability in sound installations. Edge-treated cone for good frequency response. Ceramic mag. wt.: 10 oz. 30 watts rms. High-temp. 1.0 voice coil. 8 ohms.

520-1020. 1-4 ..... **Each 10.36**
5-Up ..... **Each 9.25**



REALISTIC 8" SPEAKER SPECIAL

Excellent General-Purpose Speaker

6.95

Super-value 8" replacement speaker offers good bass response and fine highs. Has 6-ounce ceramic magnet. Perfect for TV, phono or console use. Impedance 8 ohms. An excellent general-purpose replacement speaker by Realistic, at an extraordinary low price. Wt. 3 lbs.

910-7109. Type 40-1272 ..... **Each 6.95**



REALISTIC REPLACEMENT OR EXTENSION SPEAKERS



High-quality American-made speakers put your music system, home radio, PA system or auto radio in top form. Rigid frame construction to maintain proper voice coil and magnet alignment. Powerful Alnico V magnets assure high sensitivity for efficiency approaching that of much costlier speakers. Buy in quantity and save — discounts as shown below.

Stock No.	Mfr's Type	Size In.	Size mm	Watts	Ohms	Wt. Lbs.	EACH 1-5	EACH 6-11	EACH 12-49	EACH 50-Up
910-0030	40-1201	3	76.2	3	3-4	¼	4.49	10% Off	15% Off	25% Off
910-0032	40-1203	4	101.6	3	3-4	¼	4.29	1st Col. Price	1st Col. Price	1st Col. Price
910-0036	40-1207	6	152.4	5	3-4	1¼	5.99			
910-0037	40-1209	5x3	127x76.2	4	3-4	½	4.49			

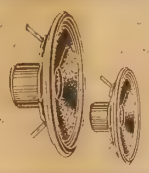
SPEAKER TERMINALS



Type 22-18. Female disconnect type non-insulated terminal. Fits 22-18 gauge wire. Sold only in boxes of 100.

975-6104 ..... **Per Box 2.36**

MINIATURE 8-OHM RADIO SPEAKERS



4 Sizes

For Transistor Radios, Tape Recorders, Walkie-Talkies

Alnico PM replacement speakers with very thin profiles to fit the tightest spaces possible. Exact replacements for most transistor radios, walkie-talkies and tape recorders. Also suitable for all types of electronic construction projects. Shpg. wt. ½ lb.

Stock No.	Type	Size	EACH 1-11	EACH 12-Up
910-0114	40-262	2¾"	1.89	1.60
910-0115	40-247	2½"	1.89	1.60
910-0116	40-246	2¼"	1.89	1.60
910-0117	40-245	2"	1.89	1.60

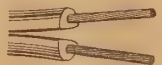


2½" TWEETER

Type AEH-253. A speaker for reproduction of very high frequencies. Surrounded with high compliance foam for improved sound reproduction. 1.5 oz. ceramic magnet. High temperature. .5 voice coil. 25 watts, 8 ohms.

520-1110. 1-4 Each 6.70 **5-Up Each 5.36**

SPEAKER WIRE — LAMP CORD (ZIP CORD)



Extra-heavy duty. Bare copper cond., PVC insulation, one cond. ridged for polarity I.D., cond. parallel, rib-type const. Cable U.L. listed SPT-1. Temp. range: −20°C to +60°C.

Stock No.	Mfr's Type	Ft. Per Spool	Conductor No.	Conductor Size	Conductor Strand	Nom. O.D. Inch	EACH
758R2213	C1418	100	2	18	41x34	.031	9.88
758R2214	C1418	250	2	18	41x34	.031	13.00
758-3772	C1360	100	2	20	7x28*	.073x.146	5.28
758-5323	C1356	500	2	24	7x32*	.058x 115	13.22
768-0361	1242T	100	2	24	7x32	.055x 120	5.63
768-0367	1242T	500	2	24	7x32	.055x.120	15.45

All clear except (*) brown, One conductor tinned. Suggested working voltage for all is 300 VAC.

NON-POLARIZED ELECTROLYTIC CAPACITORS



Ideal for speaker, crossover networks, bypass uses. Axial leads. Rated 50 volts DC.

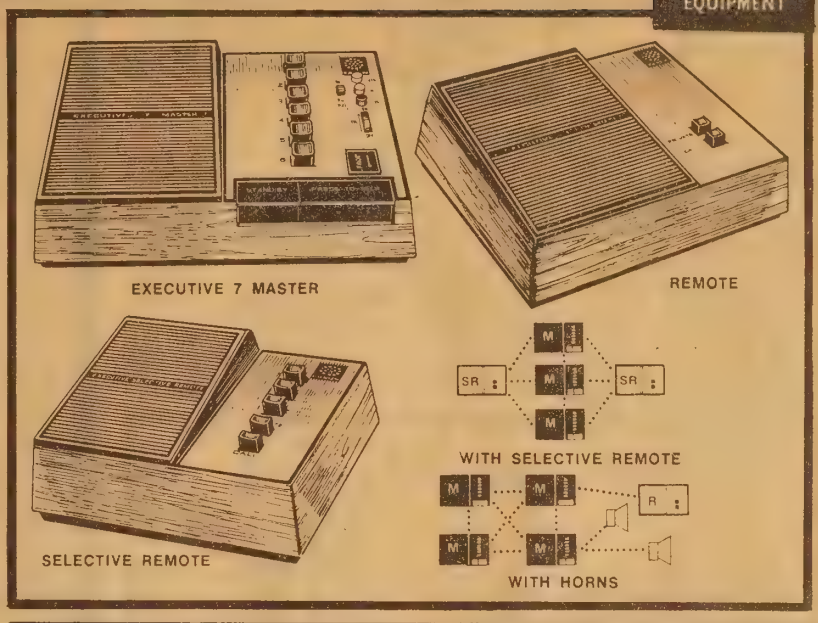
Stock No.	Mfr's Type	μF	EACH
910-6350	272-996	1.0	.69
910-6352	272-998	4.7	.89
910-6353	272-999	10.	.99

Solid-State Intercoms

EXECUTIVE SERIES HIGH-POWER INTERMIX INTERCOMS

A versatile professional intercom system with considerable intermix capability—permits any combination of up to seven masters and remotes, including paging horns with the Executive 7 Master. Permits up to thirteen stations with the Executive 13 Master. Any remote station may originate calls to its master. Three masters may be called by one selective remote. System has one watt of power for station-to-station use, with four watts of power reserved for paging into very noisy areas. A higher power paging and a "hands-free" talk back feature are available when the system is connected, through the **PR-17** relay to a separate PA system.

Both masters and remotes have a privacy switch which gives "hands-free" reply and eliminates eavesdropping. Masters also have a monitor light which indicates when they are being called (or listened in on) and a busy light which indicates that the called station is busy. All masters include a U.L. listed 110 VAC power supply and a terminal box to facilitate installation. Designed with a balanced line to eliminate cross-talk and reduce audio line loss. Attractive high impact charcoal brown cabinets with wood grain accents and aluminum trim. Cable requirements are one pair of wires plus one pair for every station in the total system. Also add one shielded wire between each remote and its Master(s). Dimensions and shipping weights for the separate system components are supplied below.



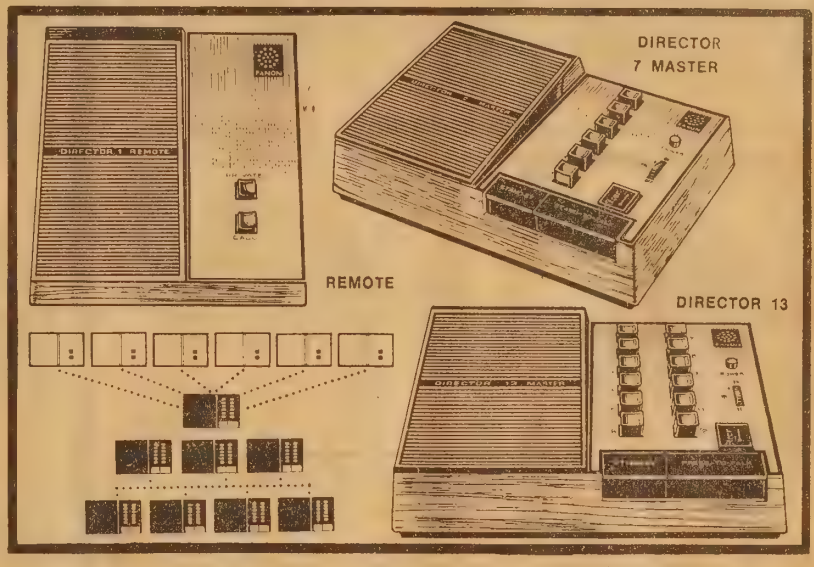
Model Executive 7 Master Station. Size: 9½x6¾x3½". 2½ lbs.
790-4000 ..... Each 109.95 **5-Up** ..... Each 98.95
Model Executive 13 Master Station. Size: 9½x6¾x3½". 2½ lbs.
790-4001 ..... Each 134.95 **5-Up** ..... Each 121.95
Model Executive 1 Remote Single Station. Size: 6¾x6¾x3½". 2 lbs.
790-4002 ..... Each 27.95 **5-Up** ..... Each 25.10
Model Executive Selective Remote Station. Size: 6¾x6¾x3½". 2 lbs.
790-4003 ..... Each 34.95 **5-Up** ..... Each 31.45
Model PR-17 Paging Relay. Shpg. wt. 1 lb.
790-4004 ..... Each 33.31 **5-Up** ..... Each 31.75
Model HDA-5-8-Horn. 7½ watts, 8 ohms, swivel base. 6" bell. 3½ lbs.
790-4005 ..... Each 21.25 **5-Up** ..... Each 19.25

DIRECTOR SERIES— MASTER-TO-MASTER OR MASTER-TO-REMOTE SYSTEM

All master system uses up to seven Director 7's or thirteen Director 13's and permits any station to selectively communicate with any other station or group of stations. Up to three simultaneous conversations may take place in a Director 7 system (six in a Director 13). Conferences between several stations can also be held.

Master to remote system permits one Director 7 master to converse with up to six Director 1 remotes (twelve remotes with Director 13 master). Master can selectively speak with any one or more remotes; however, remotes cannot speak to each other. Remotes reply to the master "hands-free" and can operate either private or non-private by use of privacy switch. Full 1-watt power allows stations to be up to 500 feet apart. Masters have volume control on/off switch, talk/listen switch with lock, U.L. Listed 110-120 VAC power supply. Designer styled high impact case may be used on desk or wall mounted. 9½x6¾x3½", Brown with wood accents, aluminum trim.

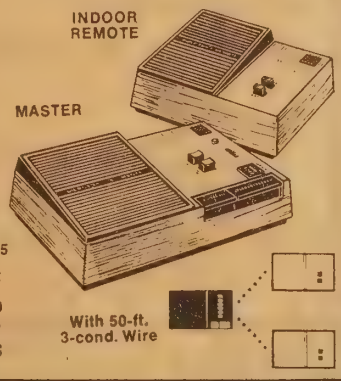
Cable requirements: use one more conductor than total number of stations in the system.



Model Director 7 Master Station. Size: 9½x6¾x3½". 2½ lbs.
790-4010 ..... Each 74.95 **5-Up** ..... Each 67.50
Model Director 13 Master Station. 9½x6¾x3½". 2½ lbs.
790-4011 ..... Each 89.95 **5-Up** ..... Each 80.95
Model Director 1 Remote Indoor Station. 6¾x6¾x3½". 2 lbs.
790-4012 ..... Each 20.00 **5-Up** ..... Each 18.00

DELUXE EXPANDABLE TWO-STATION INTERCOM SYSTEM

- **Includes Talk/Lock Position**
- **Two Station Selector Switches**
- **Privacy and Non-Privacy Switch**



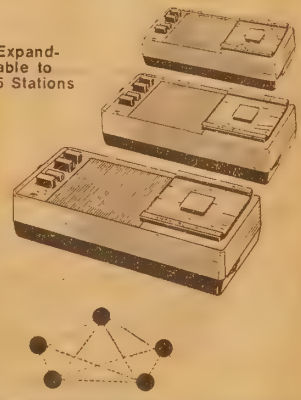
System includes master, indoor remote and 50-ft. wire. When Director D Outdoor Remote is added, remotes operate non-private only. High impact charcoal brown cabinets with wood grain accents, brush aluminum trim; can be desk or wall mount. Master 9½x6¾x3½".

Model Director Master 3S System. Indoor remote or horn can be added. Wt. 3 lbs.
790-4015 .... Each 73.25 **5-Up** .... Each 65.95

Model Director 3 Remote Indoor Station. 6¾x 6¾x3¼". Shpg. wt. 2 lbs.
790-4016 .... Each 18.95 **5-Up** .... Each 16.50
Model HDA-5-8 Horn. 7½ watts, 8 ohms, swivel base, 6" bell. Shpg. wt. 3½ lbs.
790-4005 .... Each 21.25 **5-Up** .....Each 19.25

MASTER-TO-MASTER SYSTEM

- **Three Masters—Two 50-ft. Cables**
- **Easy, Instant Plug-in Installation**
- **Use Masters Up to 500 ft. Apart**



No elaborate wiring—plug-in connectors for "instant installation." Anyone can hook up entire system in minutes. Fully selective; any station can speak to one or more stations. Permits conference calls. Two separate conversations may proceed simultaneously. Powerful IC circuitry allows distance of 500 ft. between first and last master station. Press-to-talk switch has lock position. Pilot light. Brown/wood grain accents.

Model IN-603. Starter system includes three Masters (7x3½x2"), two 50-ft. cables. Wt. 3¾ lbs.
790-4020 ..... Each 111.30 **5-Up** ..... Each 89.95
Model IN-600. Additional Master Station with 50-ft. or plug-in cable. Shpg. wt. 2 lbs.
790-4021 ..... Each 44.70 **5-Up** ..... Each 33.50
Model 6C-50. Extra 50-ft. cable with plugs. 2½ lbs.
790-4022 ..... Each 16.36 **5-Up** ..... Each 12.75

TWO STATION FM WIRELESS INTERCOM SYSTEM



Model FMW-2. This Two Station, Two Channel FM Wireless Intercom System has advance phase-locked loop FM circuitry. Blanks out background hum, static interference. Not affected by fluorescent fixtures, dimmer switches, electrical motors. No installation required—just plug in. The stable solid-state FM circuitry permits instant operation with no warm-up and long use life. The FMW-2 system is handsomely packaged with two master units. Additional stations **(Model FMW)** may be added. Two channel operation for station selectivity. Decorator styled in charcoal brown and black with woodgrained accents, the FMW-2 intercom system blends in with any home or office decor. Size: 7" Wx 3¾" D x 1¾" H. Shpg. wt. 2 lbs. 7 oz.
790-5000. Model FMW-2 ..... Each 109.95 **790-5010.** Model FMW ..... Each 55.50

Intercom Systems

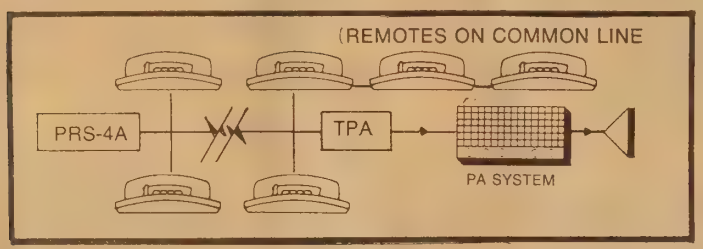


SERIES TSL MULTI-CHANNEL PHONES

Choose a system which provides either twelve or twenty-eight stations. Using twelve TSL-12A phones it is possible to have six simultaneous conversations and as many as fourteen conversations with twenty-eight TSL-28A phones. Multiple-channels permit up to eight phones conversing at once, conference style. Operation is as simple as pushing a selector button for the station(s) being called, and a ring button. The system may be connected to a public address system to permit paging from each phone. Up to eleven TSL-12A or twenty-six TSL-28A may be used with paging tie-in. Suitable for wall or desk mounting. Switches are encapsulated for protection and transmitter is rust protected. Circuit board is metallurgically-treated for reliability and long life. Each Series TSL system requires one PRS-4A power supply. A TPA paging adapter is needed if tie-in to PA system is desired. See below for power supply and paging adapter. Sand tint with gray trim. Size (LxWxH): 8¾x3¼x3¾" (22.23x8.25x9.5cm). Weight: 4 lbs. (1.8kg).

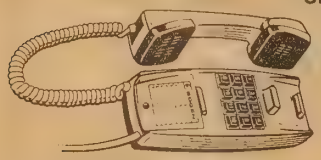
TSL-12A. Multi-line phone has 11 station selector buttons and a ring button.
733-0078. 1-4 ..... Each 64.00 5-Up ..... Each 48.20

TSL-28A. Multi-line phone has 14 station selector buttons and two ring buttons. Each selector button is used for two stations, each wired to a different ring button.
733-0079. 1-4 ..... Each 84.00 5-Up ..... Each 64.10



SERIES TSL SYSTEM CONNECTED TO PAGING SYSTEM. In the above system multiple conversations can be held simultaneously. Any station may converse with any other station. Conference calls are possible, using the desired station selector buttons. Any phone can page and remotes reply on common line.

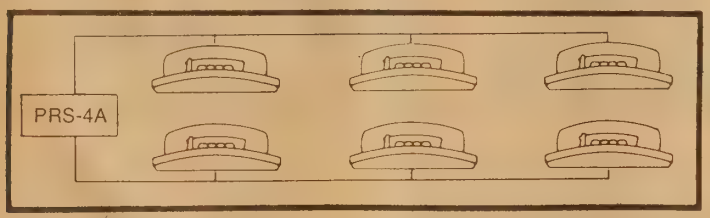
SERIES TQ COMMON-TALK PHONES



Either one of these economical systems can provide a common intercom line, with selective calling and provision for paging tie-in to public address system. Up to 9 TQ-8B or 13 TQ-12B may intercommunicate. If paging tie-in is desired, one less phone may be used. Simple push-button selective calling sounds a buzzer at the desired station when the button is pressed. For a conference call four buttons may be pressed. Suitable for wall or desk mounting. Switches are encapsulated for protection from dirt and dust and transmitter is rust protected. Circuit board is metallurgically-treated for reliability and long life. Each Series TQ system requires one PRS-4A power supply. See below for power supply and paging adapter. Sand tint with gray trim. Size (LxWxH): 8¾x3¼x3¾" (22.23x8.25x9.5cm). Weight 4 lb. (1.8kg).

TQ-8B. One-line phone has 8 station selector buttons for up to a 9-station system.
733-0070. 1-4 ..... Each 46.09 5-Up ..... Each 40.50

TQ-12B. One-line phone has 12 station selector buttons, for up to a 13-station system.
733-0071. 1-4 ..... Each 51.60 5-Up ..... Each 45.00



SERIES TQ SYSTEM 1. In the above 6-station (TQ-8B) system one conversation can be held at any one time. This can be a single two-way call or a conference call (6 maximum in conference mode) with as many stations as desired (up to 9 stations in a TQ-8B system, 13 stations in a TQ-12B system). Any station may converse with any other station.

ACCESSORIES FOR TSL AND TQ SERIES PHONES

PRS-4A. Power Supply. One power supply is required for each system. Can be plugged into any standard electrical outlet (120/240VAC, 60 Hz) and connected to any convenient junction box in the system. Power drain is negligible when the system is inactive. Size (WxDxH): 6¼x4¾x2" (15.9x12.1x5cm). Weight: 4 lbs. (1.8kg).
733-0060. 1-4 ..... Each 37.50 5-Up ..... Each 33.75

TPA Paging Adapter. Permits tie-in to public address system for paging from TQ or TSL phones. Separate volume control permits different levels for paging and background music. Size (WxDxH): 4x4x2" (10x10x5cm). Weight: 2 lbs. (0.9kg).
733-0075. 1-4 ..... Each 40.00 5-Up ..... Each 36.00

WIRING FOR SERIES TSL AND TQ

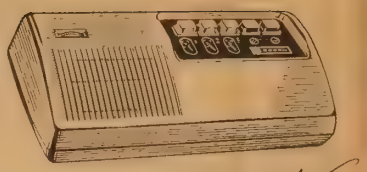
The interconnecting cable between telephones (except TSL-28A) should consist of unshielded, insulated conductors totalling 3 more than the total number of stations in the system. The TSL-28A requires 4 more conductors than one-half the number of stations in the system. For example, 20 TSL-28A requires 14 conductors.

CABLE FOR TSL AND TQ PHONES (100-FT. SPOOLS)

No. of Cond.	Lbs./ 100′	Stock No.	Mfr's Type	EACH	No. of Cond.	Lbs./ 100′	Stock No.	Mfr's Type	EACH
3	2	768-9149	832203	10.95	15	7	708-5407	1181/15	38.99
6	4	768-9152	832206	10.86	..	..	.....	.....	.....
12	5½	768-9155	832212	20.62	..	..	.....	.....	.....

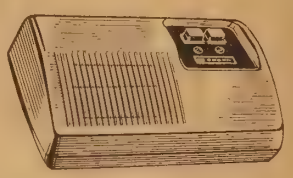
See Page 119 for Additional Cable.

IE-4B MASTER STATION



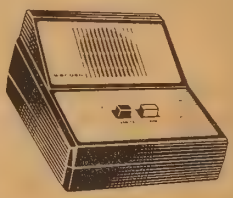
The IE-4B is an intercom master station that can call or receive calls from up to three remote stations. (See below for RIE-1B). The master station features a solid-state amplifier with integrated circuitry. Tone signal announces calls and annunciator light (remains lit for 15 secs.) shows which remote is calling master. The master converses by using a simple "press-to-talk" button, volume control included. Operates on 120V and has a small power supply module that plugs into any A.C. outlet. May also be powered by four "C" batteries. Styled in low silhouette white enclosures of rugged, impact-resistant plastic. May be placed on desk-top or wall-mounted. Wiring between the master and each remote requires only a two-conductor cable. WxHxD: 8⅞×2⅜×4⅜" (22.54×6.03×11.11 cm). Shpg. wt. 1 lb., 13 oz. (0.82 kg).
733-0008 ..... Ea. 65.60 4-Up .... Ea. 52.45

RIE-1B REMOTE STATION



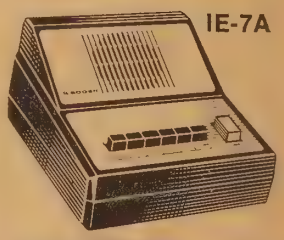
As many as three RIE-1B remote stations may be used with the IE-4B master (see above, for IE-4B) for instant, clear, two-way voice communication. The RIE-1B is attractively styled in low silhouette white enclosures of rugged, impact-resistant plastic. May be placed on desk-top or wall-mounted. The remote is alerted by a soft, electronic tone, and converses hands-free by selecting the "non-private" mode on its privacy switch. When the remote calls the master, the latter receives a discreet tone signal, plus visual indication of which remote is calling. Remotes are powered from the master and require no line or battery voltage. W×H×D: 6⅞×2⅜×4⅜" (17.46×6.03×11.11 Cm) Shpg. wt. ½ lb., (0.226 kg).
733-0069. 1-3 ..... Each 23.40 4-Up ..... Each 18.75

SOLID-STATE INTERCOMS



To use models IE-7A or IE-13A with RIE-1A as a Single Master/Multiple Remote System, use a 3-conductor unshielded cable (768-9149) between master and each remote. IE-7A and IE-13A may also be used in an All Master system, in which case, one more wire is required than the total number of stations.

IE-7A MASTER STATION



For systems up to 7 stations. Two-tone black and beige cycolac units for desk top or wall mounting. Master has volume control, press-to-talk bar with dictate lock, rugged push-push selector switches with individual station identification strips. One watt peak output. Sensitive amplifier. For operation from 120VAC 50/60 Hz. Size: 7⁹/₁₆x6⅞x4⅜" (19.2x17.46x11.11cm) wt. 4 lbs., (1.81 kg).
733-0006. 1-4 .... Each 70.75 5-Up ..... Each 63.70

IE-13A MASTER STATION



For systems up to 13 stations. Identical to the IE-7A, above, with the added ability to communicate with several more stations.
733-0007. 1-4 .... Each 92.83 5-Up ..... Each 78.00

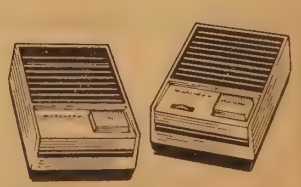
RIE-1A REMOTE

Use with the IE-7A or IE-13A to complete a Single Master Multiple Remote System. Can originate call to master and function privately or non-privately. Unit has press-to-talk bar and privacy switch. Wt. 3 lbs., (1.36 kg).
733-0067. 1-4 ..... Each 28.00 5-Up ..... Each 22.45

CABLE FOR "IE" INTERCOMS (100-ft. Spools)

708-5397. Type 1172. 2-cond. unshld. 2 lbs. (0.90kg) ..... **Ea. 8.45**
768-9149. Type 832203. 3-cond. unshld. 2 lbs. (0.90kg) .... **Ea. 10.95**
758-2099. Type 04084. 9-cond. unshld. 5 lbs. (2.27kg) ..... **Ea. 18.89**
768-9155. Type 832212. 12-cond. unshld. 5½ lbs. (2.49kg) .. **Ea. 13.50**
708-5066. Type 1323. 16-cond. unshld. 7 lbs. (3.17kg) ..... **Ea. 33.65**
768-8822. Type 722201. 1-cond. vinyl shld. 1 lb. (0.454kg) .. **Ea. 10.02**

TWO-STATION INDOOR/ OUTDOOR INTERCOM



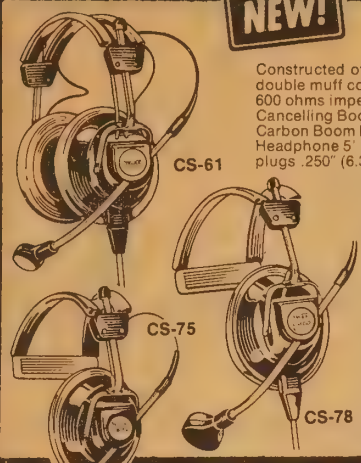
Remote signals master—even when system is off. For desk top or wall mount. Wired system offers the advantage of economy—operating on standard batteries, it is inexpensive to maintain. System can be used where no AC outlet is available. Batteries and 66-foot connecting wire included. Size: 4⅛x3¹/₁₆x1¾" (10.47x7.77x4.44cm). Wt. 3 lbs. (1.36kg).
910-0181. Type 43-221 ..... Each 12.95

Headphones and Headsets

NEW!

SERIES 1320 COMMUNICATION HEADSETS

Constructed of stainless steel and high-impact plastic and designed for user comfort and rugged durability. Available in single or double muff configurations and with or without dynamic boom microphones, also carbon microphones. **Specifications:** Headphone: 600 ohms impedance. Sensitivity: 105 dB SPL ±5 dB at 1 kHz with 1 mW input. Freq. response: 50-18,000 Hz useable. Dynamic Noise Cancelling Boom Microphone: 150 ohms impedance. Sensitivity: (Open Circuit) −83 dB re IV/μ bar. Freq. response: 100-8000 Hz ±5 dB. Carbon Boom Microphone: 20-50 ohms impedance. Sensitivity: −58 dB re IV/μ bar, 100 ohm load, 12VDC. Freq. response: 500-6000 Hz. Headphone 5' (1.52m) cord. 2-circuit plug .250" (6.35mm) dia. Headset (with mic) 5' (1.52m) cord terminating in "Y" with two 2-circuit plugs .250" (6.35mm) dia. Mic. plug red, headphone plug black.



Model CS-61. Headphone style is dual muff. With dynamic microphone. Weight: 18 oz. (510g).
969-0500. 61320-008 ..... **Each 64.00**

Model CS-75. Headphone style is single muff. With dynamic microphone. Weight: 12 oz. (340g).
969-0200. 61320-009 ..... **Each 54.00**

Model CS-78. Headphone style is single muff. With carbon microphone. Weight 12 oz. (340g).
969-0300. 61320-010 ..... **Each 54.00**

Model CS-7. Headphone style is dual muff. Without microphone. Weight: 15 oz. (425g).
969-0400. 61320-005 ..... **Each 45.00**

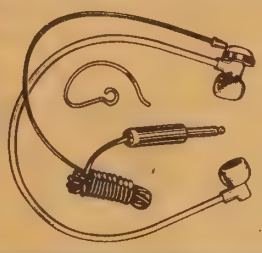
Model CS-11. Headphone style is single muff. Without microphone. Weight: 12 oz. (340g).
969-0100. 61320-006 ..... **Each 33.00**

Model CS-45. Headphone style is dual muff. With carbon microphone. Weight: 18 oz. (510g).
969-0600. 61320-007 ..... **Each 64.00**



LIGHTWEIGHT HEADPHONES

NEW!

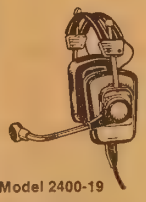


TELE-FI®. These headphones are ideally suited for dictation and transcription, private radio or TV listening, phone order desks, group training and similar applications in the office, home and industry. Under-the-chin design makes it comfortable to wear during long periods of time. Single speaker circles the sound around the underchin tone band for a millisecond delay between ears, creating greater depth and clarity of sound. Flexible cord permits freedom of movement without tangling. Foam earcushions are easily removed and replaced. Magnetic speaker also snaps onto the nylon earloop (included). Detachable 5 ft. (1.52m) cord. 2-circuit plug .250" (6.35mm) diameter. Wt. 1.5 oz. (43g).
969-1000. Model HFR-91. Impedance: 15 ohms ..... **Each 9.00**
969-1100. Model HFY-91. Impedance: 2000 ohms ..... **Each 9.00**

TEACHING LAB HEADSETS AND HEADPHONE



Model 500-1. Headset with pivoting boom microphone. Driver type is dynamic, impedance: 600 ohms. Microphone type is N.C. dynamic, impedance: 300 ohms. 4 ft. (1.2m) cord. ¼" molded plug.
969-2100. 63500-001 ..... **Each 29.95**



Model 2400-19. Direct teaching lab replacement headset. Driver type is dynamic, impedance 600 ohms. Microphone type is N.C. dynamic. 300 ohms impedance. 5 ft. (1.5m) cord. RA ¼" molded plug.
969-2000. 62400-019 ..... **Each 39.95**

Model 1210-04. Is a direct teaching lab headphone similar to Model 2400-19 but without a microphone. Driver type is dynamic with 600 ohms impedance. 5 ft. (1.5m) cord. ¼" molded plug.
969-2200. 61210-004 ..... **Each 28.30**

NEW!

GENERAL REPLACEMENT HEADPHONES



Model 510-1. Soft earcushions and adjustable headband for hours of comfortable listening. Dynamic driver, 130 ohms impedance. 4 foot (1.2m) cord. Standard ¼" molded plug.
969-3000. 63510-001 ..... **Each 8.25**



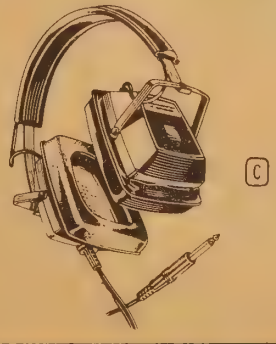
Model 610-1. Cushioned earpads and adjustable headband gives a natural fit. Magnetic driver, 600 ohms impedance. Color is brown. With 5 foot (1.5m) cord and standard ¼" molded plug.
969-3100. 61630-004 ..... **Each 7.90**

WIDE RESPONSE COMFORTABLE HEADSETS



- **Foam Earcushions For Hours of Comfortable Listening With Maximum External Noise**
- **High Quality, Lightweight Headsets**
- **Three Types of Headsets to Choose From**





A AVIATION/MARINE HEADSET

MODEL AV-NS-7. Special noise-shield for maximum intelligibility despite elevated noise level in hi noise areas. External noise attenuated to 50 dB. Lets you listen for hours without strain. Can be worn comfortably with glasses. Contoured foam earcushions. Response, 10-15,000 Hz. Impedance, 600 ohms. 10 ft. (3 m) retractable cord, phone plug. Wt. 3 lbs. (1.4 kg).
949-8702 ..... **Each 55.60** **5-Up** ..... **Each 45.00**

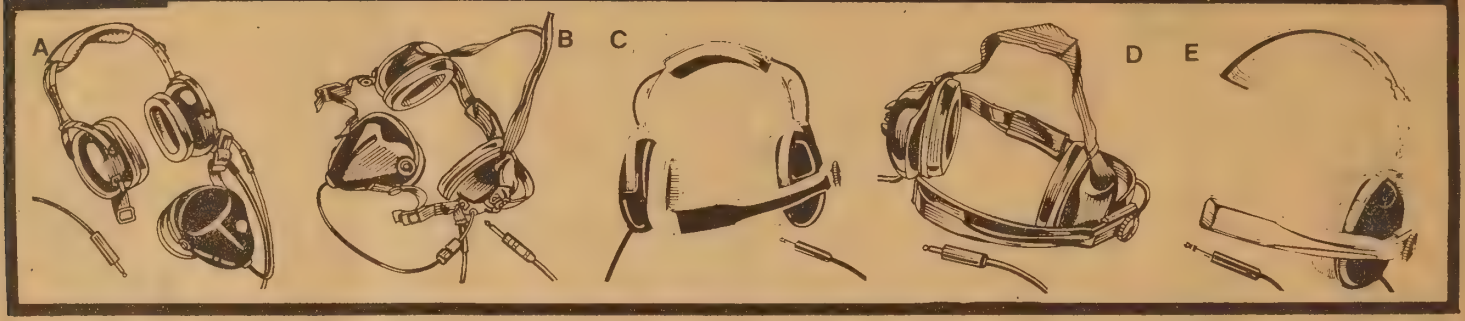
B HEADSET FOR LANGUAGE LABS

MODEL APS-2. Deluxe, lightweight. For prolonged use in language labs and communications. Soft, vinyl-covered foam earcushions. Frequency response is 80-12,000 Hz. Factory connected for hi-impedance 600-ohm output. Leads may be changed to 4-16 ohms. With 10 ft. (3 m) coil-cord and standard ¼" (6.3 mm) mono plug. Shpg. wt. 3 lbs. (1.4 kg).
949-8700 ..... **Each 29.95** **5-Up** ..... **Each 25.95**

C "COMMUNICATOR" HEADSET

MODEL COM-2. Extra sensitive headset. Frequency response 100-10,000 Hz. Highly intelligible voice reception. Soft, vinyl-covered foam-filled washable earcushions. Listen for hours without tiring. Dynamic elements for crisp audio reproduction. Impedance, 4-16 ohms. 7 ft. (2.1 m), 2-conductor cord. ¼" (6.3 mm) phone plug. Ship. wt. 1 lb. (.45 kg).
949-8710 ..... **Each 18.25** **5-Up** ..... **Each 15.75**

Sound Power Headphones and Telephone Intercoms



SOUND POWER HEADPHONES

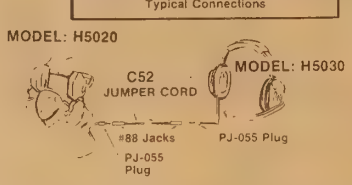
Transmits up to 30 miles, up to 4 or 5 headsets may be connected for shorter distances. No batteries, no amplifier required. Your voice is the power. Incorporates the finest quality sound power elements fabricated to government specifications.

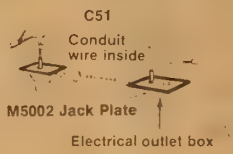
Model H5010 • Model H5020
Headset/Microphone. (Noise Shielded). Affords reliable, distinct clear communications in medium to high noise areas up to 130 dB. A push to talk switch is conveniently located on the microphone shield.

Model H5030 • Model H5040
Headset/Microphone. (Acoustic Boom). Backloads a receiver by use of a durable acoustic boom. This principle eliminates the boom mounting of a heavy microphone element. The lightweight boom easily adjusts in all planes. Boom can be worn on either side of the head. For noise areas up to 100 dB.

Model H5090
Headset/Microphone. (Acoustic Boom). Same as 10SB-A except single ear. For use in noise up to 70 dB.

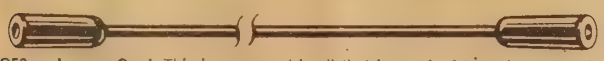
SOUND POWER INSTALLATIONS
Typical Connections





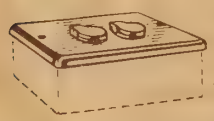
Stock No.	Model	Fig.	EACH 1-4	EACH 5-Up
535-0240	H5010	A	179.75	161.95
535-0390	H5020	B	177.50	159.95
535-0185	H5030	C	144.25	129.95
535-0380	H5040	D	142.25	128.10
535-0400	H5090	E	97.50	82.77

SOUND POWER ACCESSORIES



C52 — Jumper Cord. This jumper cord is all that is required to make a complete two-man system. Headsets plug directly into the #-88 jack at each end of this cord. Should greater distance be required, our C51 extension cord may be used in conjunction with the jumper cord.

Stock No.	Type	Length	EACH 1-4	EACH 5-Up
535-0059	C52-12	12'	19.25	17.32
535-0064	C52-50	50'	35.25	31.75



M5002 — Jack Plate. Jacks with weatherproof covers are mounted on a standard outlet faceplate (outlet box furnished by installer). Color coded pigtails are provided for easy installation.

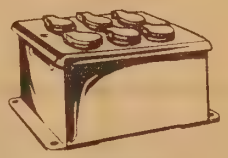
Stock No.	Type	EACH 1-4	EACH 5-Up
535-0040	M5002	16.25	14.65

Illustrated below is a line of accessories designed to make complete sound power system installations. For simplicity and flexibility all plugs and jacks on headsets, extension cords, and jack plates mate with each other. All cords are two-conductor neoprene jacketed for extended flexlife and abrasion resistance.



C51 — Extension Cord. This extension cord has a #-88 phone jack on one end and a PJ-055 phone plug on the other. It is used with any accessory shown, including the C52 or C51 extension cords.

Stock No.	Type	Length	EACH 1-4	EACH 5-Up
535-0012	C51-12	12'	19.25	17.35
535-0074	C51-50	50'	35.25	31.75



J-6 — Junction Box. This is a heavy-duty junction box approximately 2¾x4½x2¾" (69.85x 114.3x69.85mm) with jacks to accommodate up to six headsets.

Stock No.	Type	EACH 1-4	EACH 5-Up
535-0046	J6	69.25	62.32

SOUND POWERED TELEPHONE INTERCOM AND HANDSETS

Model SPS-210 is a wall mounted sound powered telephone station incorporating a compelling battery powered annunciator. Talk circuit is sound powered. Signal power 95 dB at two feet, has volume control. Solid state design, no arcing, no R.F. noise, no shock hazard. Simple two-wire hook up using #18-22 wire (not included). Signal operates on two 9-volt batteries (included), may be mounted away from station if desired. Station consists of SPT-148 sound powered handset, Signal Unit SU-1210 and B-5446 hanger. SU-1210 includes Signal SN-1210 and a Power module, may be used with sound powered handsets or headsets on this page. Sound powered handsets may be used on a portable basis for industrial maintenance and checkout, circuit testing, electrical installation, construction work. All handsets feature two conductor neoprene jacketed cordsets, high-level cup-type mouthpiece. Models with suffix "S" on model number have 4½' straight cordsets (suggested for portable applications), others have 8' (extended length) coiled cordsets. **Model SPT-125, SPT-125S** for two phone applications. **Model SPT-148, PT-148S** for multi-phone set-ups, have line cancelling "push-to-operate" button in handset handle. Handsets, except that included with SPS-210, have alligator clips. B-5446 hanger is black ABS plastic, mounts with two #6 wood screws.

Stock No.	Mfr's Type	Description	EACH 1-4	EACH 5-Up
987-5000	SPS-210	Sound Powered Telephone Station	95.00	85.50
987-5100	SU-1210	Same as SPS-210, less handset	58.30	52.47
987-5200	SN-1210	Extra Signal for above	20.00	18.00
987-4320	SPT-148	Handset w/push-to-operate button	41.65	39.56
987-4325	SPT-148S	SPT-148 w/straight cordset	41.65	37.48
987-4335	SPT-125	Handset for two-phone applications	35.65	33.86
987-4340	SPT-125S	SPT-125 w/straight cordset	35.65	32.08
987-4306	B-5446	Handset hook for wall or deskside mounting	2.87	1.95



SPS 210



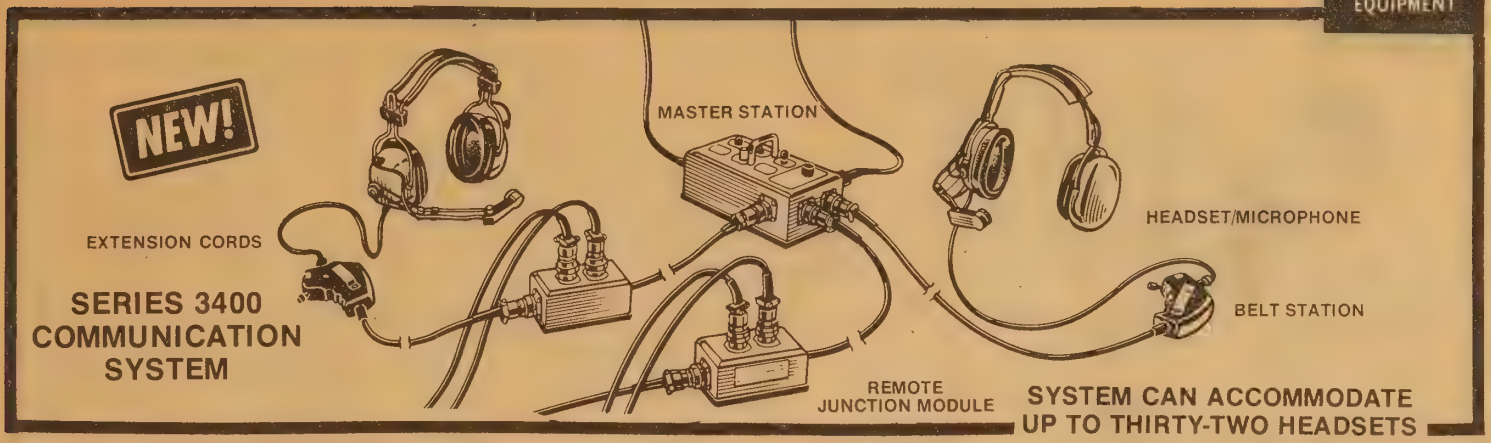
SPT 148



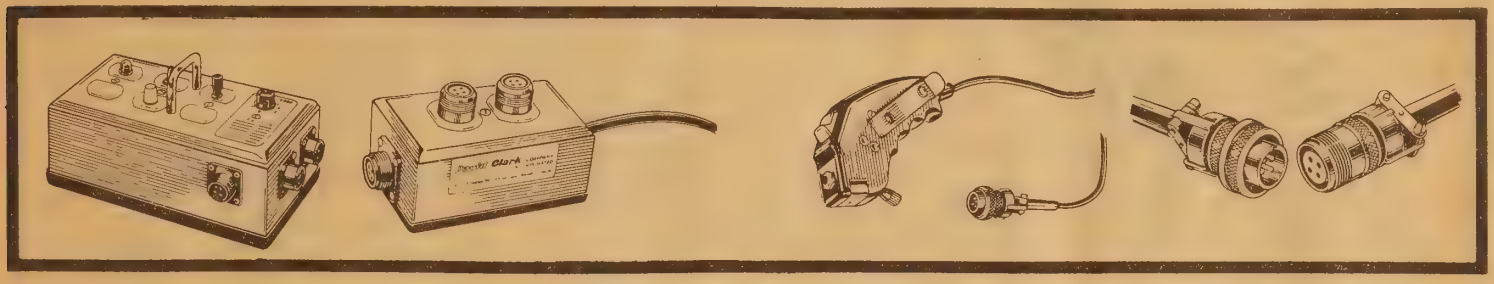
HANGER P/N B - 5446

Call Your Nearest Allied Electronics Warehouse for Larger Quantity Prices

Amplified Communication System



Series 3400 Communication System. Ideally suited in situations where voice communications are necessary, but background noises and/or distance makes it virtually impossible to communicate. Because it is a self-contained, portable and easy-to-operate system it can be used to communicate on construction sites, crane operations, oil rigs, large manufacturing facilities, steel mills, mines, sporting events, rock concerts, racing, large open work area, around noisy equipment or anywhere you need to be heard above the noise. The Series 3400 System requires: U3400 master station (amplifier/power supply), two or more noise-attenuating headsets, comparable number of U3410 belt stations (preamplifier). *Every headset in the system must be plugged into a belt station.* The system is expandable to accommodate up to 32 headsets; simply add the necessary remote junction modules, headsets, belt stations and extension cords. The junction modules can be connected in any configuration to provide desired belt station/headset connections. It is necessary to preset the impedance selector on master station to correspond with the total number of belt stations connected to the system. Screw-on type connectors are used throughout. Utilizing four conductor shielded wire which provides effective shielding from other electrical interference caused by fluorescent lights, motors, etc. Also isolates talk line from listen line. See below for detailed description of each component.



U3400 MASTER STATION

Contains the power supply, amplifier and impedance selector in a sturdy metal box. Has four output connectors, a 12-foot grounded power cord, roll bar/carry handle, master volume control and system on/off switch. Belt stations can be connected to four master station outputs (via extension cords if distance necessitates) to form a four-man communication system. Remote junction modules may be connected to those outputs to expand the system. Input 110-125VAC, 50-60 Hz. Output 24VDC, max. current ½ amp. Size: 5¾x9½x4¾".
535-1000. U3400 ..... **Each 352.50**

U3401 REMOTE JUNCTION MODULE

Remote junction modules are used to provide additional belt station connections. Each can accommodate three belt stations or two belt station connections and another remote junction module or extension cord. Your requirements dictate the particular system arrangement up to a limit of 32 headsets.
535-1100. U3401 ..... **Each 112.50**

U3410 BELT STATION

Serves as a preamplifier and interfaces between headset and system. Every headset must be plugged into a belt station for the system to operate. Belt station connects to a master station or remote junction module, either directly or via extension cords if distance necessitates. The unit features headset jack, individual earphone volume control, a push-to-talk or push-to-lock microphone button, belt clip, 12 foot cord with connector.
535-1200. U3410 ..... **Each 104.25**

EXTENSION CORDS

Extension cords with screw-on type connectors are used to expand the system to cover a larger area. These cords can be used to connect all components — master station, remote junction modules and belt stations. Four conductor, oil resistant cord. *Number after dash indicates length in feet.

535-1300. *C34-12 ..... **Each 47.50**
535-1310. *C34-25 ..... **Each 57.50**
535-1320. *C34-50 ..... **Each 77.50**
535-1330. *C34-100 ..... **Each 126.50**



MODEL H3330 HEADSET/MICROPHONE

Noise-attenuating headset, high impedance (600 ohms) with M-2/DC noise canceling, amplified dynamic microphone. Over-the-head style with boom mounted microphone. For noise levels to 125 dB.
535-2000 ..... **Each 138.00**

MODEL H3340 HEADSET/MICROPHONE

A behind-the-head version of model H3330 for use with safety cap. For noise levels to 125 dB. Noise-attenuating headsets, high impedance (600 ohms) with M-2/DC noise cancelling, amplified dynamic microphone.
535-2010 ..... **Each 136.00**

MODEL H3370 LIGHTWEIGHT HEADSET/MICROPHONE

Over-the-head style with boom mounted microphone. Not to be used in noise levels above 90 dB. Noise-attenuating headset, high impedance (600 ohms) with M-2/DC noise canceling, amplified dynamic microphone.
535-2020 ..... **Each 109.50**

MODEL H3390 LIGHTWEIGHT HEADSET/MICROPHONE

Single ear version of Model H3370. Not to be used in noise levels above 70 dB. Noise-attenuating headset, high impedance (600 ohms) with M-2/DC noise cancelling, amplified microphone.
535-2030 ..... **Each 94.75**

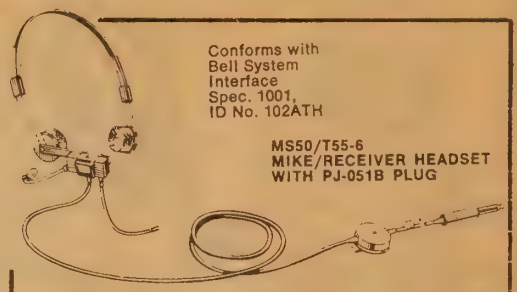
See Page 2 for the Allied Electronics Warehouse Nearest You

Lightweight Mike/Headsets



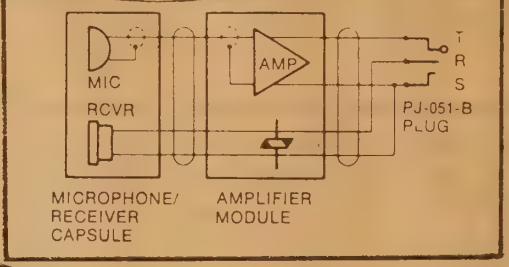
- Command and Control
- Radiocommunications
- Telecommunications

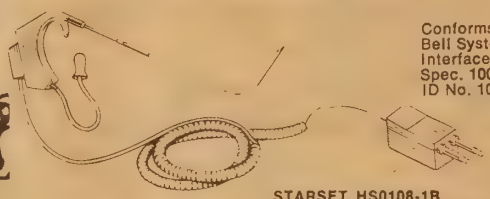
- New Quick-Disconnect Feature
- Hands-Free Operation
- No "Headset Fatigue"
- Wear with Glasses



Conforms with Bell System Interface Spec. 1001, ID No. 102ATH

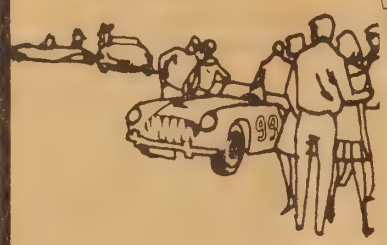
MS50/T55-6 MIKE/RECEIVER HEADSET WITH PJ-051B PLUG

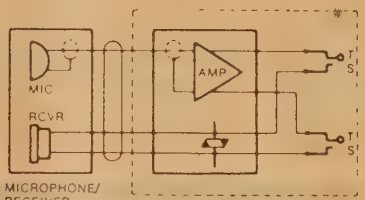


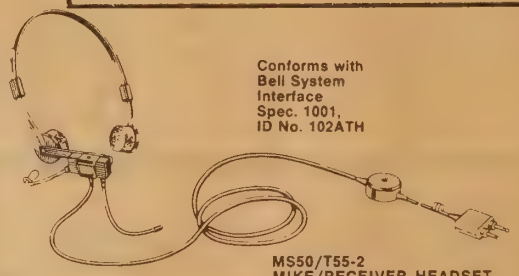


Conforms with Bell System Interface Spec. 1001, ID No. 101ATH

STARSET HS0108-1B MIKE/RECEIVER HEADSET

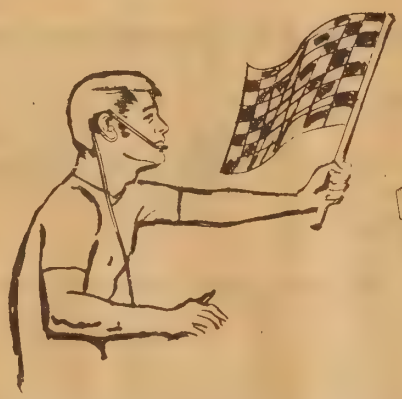


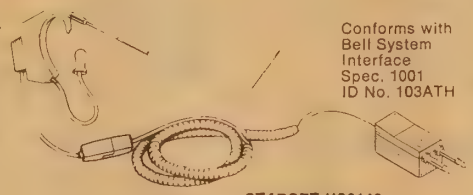




Conforms with Bell System Interface Spec. 1001, ID No. 102ATH

MS50/T55-2 MIKE/RECEIVER HEADSET WITH PJ-327 PLUG





Conforms with Bell System Interface Spec. 1001 ID No. 103ATH

STARSET HS0143 QUICK-DISCONNECT MIKE/RECEIVER HEADSET

COMMUNICATIONS HEADSETS OFFER EFFICIENCY, SAFETY, AND COMFORT

Ultra-lightweight quality communication headsets for telephone, dispatchers, portable and mobile radio, television cameramen, paging and sound systems. Offer great clarity and intelligibility. Lightweight design eliminates fatigue; extremely soft, chemically treated ear-tips assure maximum comfort and hygiene. Response: 300-3000 Hz. Headset with headband (MS50 models) weighs less than 2 ounces (57 gms); without headband (StarSet), less than 1 ounce (28 gms). Both models can be attached to eyeglasses. Both mike and receiver consist of controlled reluctance elements within the capsule housing. Supplied with a set of six earpieces of various sizes and zippered case.

BNS-1 BACKGROUND NOISE SUPPRESSOR FOR MS50 HEADSETS

Slips over end of voice tube.
888-4416. 1-4 ..... Each 10.00 5-Up ..... Each 8.00

DYNAMIC 150-OHM HEADSET WITHOUT PLUG

Model MS50-60. 150-ohm mike has 0.275 mV output. 600-ohm receiver. 60" (1524mm) cord. Wt. 14 oz. (396gm)
888-4403. 1-4 .... Ea. 72.00 5-9 ..... Ea. 64.80 10-24 ..... Ea. 54.00 25-Up .... Ea. 52.75

DYNAMIC 3000-OHM HEADSET WITHOUT PLUG

Model MS50-59. 3000-ohm mike has 1.55 mV output. 600-ohm receiver. 60" (1524mm) cord. Wt. 14 oz. (396gm).
888-4402. 1-4 .... Ea. 72.00 5-9 ..... Ea. 64.80 10-24 ..... Ea. 54.00 25-Up .... Ea. 52.75

SWITCHBOARD TYPE HEADSET — PJ327 PLUG

Model MS50/T55-2. Replaces carbon type headsets. Mike amplifier output at 50 ohms. 112 mV. 300-ohm receiver requires .01 mW input for 105 dB SPL. Operates at 4.4VDC, 100 mA. 10' (3.048m) coiled cord, PJ-327 plug. Wt. 16 oz. (453gm).
888-4409. 1-4 ... Ea. 111.45 5-9 ..... Ea. 99.95 10-24 ..... Ea. 95.50 25-Up .... Ea. 89.65

SWITCHBOARD TYPE HEADSET — PJ051B PLUG

Model MS50/T55-6. Mike amplifier output at 50 ohms. 112 mV. 300-ohm receiver requires .01 mW input for 105 dB SPL. Operates at 4.4VDC, 100 mA. 10' (3.048m) coiled cord with PJ-051B plug. Weighs only 2 oz. (57gm). Ship. 16 oz. (453gm).
888-4410. 1-4 ... Ea. 118.50 5-9 .... Ea. 109.95 10-24 .... Ea. 101.55 25-Up .... Ea. 95.30

STARSET ULTRA-LIGHT AMPLIFIED HEADSET

Model HS0108-1B. Ultra-compact 1-oz. headset rests over the ear. No headband required. Mike amplifier built into PJ-327 two-circuit plug has 100 mV output into 50-ohm resistive load. 300 ohm receiver. 10' (3.048m) cord. 18 oz. (510gm).
888R4400. 1-4 .. Ea. 122.55 5-9 .... Ea. 115.00 10-24 .... Ea. 105.05 25-Up .... Ea. 99.55
Model HS0143-1B. Same as above, but with Quick Disconnect feature.
888-4401. 1-4 ... Ea. 134.30 5-9 .... Ea. 120.00 10-24 .... Ea. 115.10 25-Up ... Ea. 109.10

DYNAMIC MIKE-ONLY HEADSET — 150 OHMS

Model MS-40-5. For sound system, radio console, dictation. Output, 0.275 mV. 60" (1524mm) cord with solder leads. Wt. 13 oz. (368gm).
888-4405. 1-4 .... Ea. 54.00 5-9 ..... Ea. 47.95 10-24 ..... Ea. 40.50 25-Up .... Ea. 38.95

EARTIP KITS

Special Eartip Kits for Replacing Worn, Dirty or Lost Eartips. Easy to Install. Assorted Sizes Ensure Fit for Any Ear.

Model 05088-00. Eartip Kit for Model MS50 Series headsets. 6 tip sizes. 2 oz.
888-6000. 1-4 ..... Each 6.35 5-9 ..... Each 5.06
Model 06448-00. Eartip Kit for StarSet headsets. 6 tip sizes. 2 oz.
888-5000. 1-4 ..... Each 8.10 5-9 ..... Each 6.50

Cassette Tapes and Accessories

FULL RANGE CASSETTES 900 SERIES DYNAPHONIC™



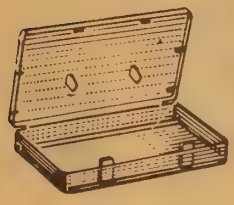
900 Series

- **Flat Frequency Response of 25 to 7500 Cycles**
- **High Quality Welded Cassette Housing**
- **Four Standard Sizes Available**

Standard output magnetic oxide recording tape with flat frequency response of 50 to 7500 cycles within 4 dB. Housed in high quality welded cassettes, hard window. Recording noise level of −55 dB. Labeled and bulk packed. **Sold only in multiples of 100.**
MINIMUM ORDER: 100 PIECES PER TYPE

Stock No.	Mfr's Type	Description	Min. Order 100 Cassettes 100-400	500-900	1000-Up
601-2030	10-901	C-30	.61	.52	.47
601-2060	10-902	C-60	.75	.65	.56
601-2090	10-903	C-90	1.15	.98	.86
601-2120	10-904	C-120	1.45	1.23	1.11

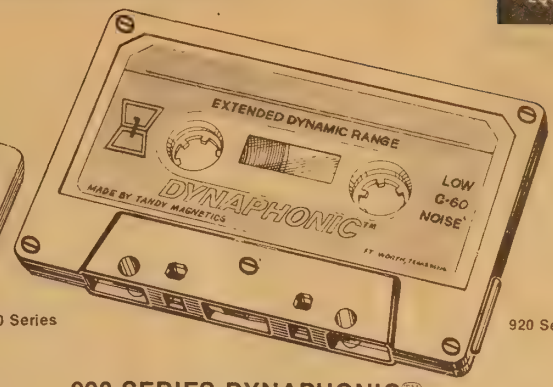
CASSETTE BOXES



Type 611. Translucent polypropylene hinged boxes are available in case quantities of 400 per case. (Shipped in separate containers from the bulk cassettes.) ***Sold only in multiples of 100.**

Minimum order: 100 pieces
601X2000 ..... Price Each* .19

CUSTOM LABELING SERVICE. At surprisingly low cost, Allied Electronics will supply volume purchasers with custom printed, private tape labels made from the purchaser's own graphics. (Min. order: 25,000.) Contact your nearest Allied facility for pricing and delivery information.



920 Series

920 SERIES DYNAPHONIC™ LOW-NOISE EXTENDED RANGE CASSETTES

- **Frequency Response of 25 to 11,000 Cycles**
- **5 Screw, Precision Cassette Housing**
- **Three Standard Sizes Available**

Low noise high output magnetic oxide recording tape. Output at 6300 cycles plus 2 dB relative to 900 Series recording tape. Frequency response of 25 to 11,000 cycles within 4 dB. Noise level of −58 dB. Housed in 5 screw, precision cassette casing. Labeled and bulk packed, 100 per case. **Sold only in multiples of 100.**
MINIMUM ORDER: 100 PIECES PER TYPE

Stock No.	Mfr's Type	Description	Min. Order 100 Cassettes 100-400	500-900	1000-Up
601-1000	10-925	C-45	.90	.75	.65
601-1100	10-926	C-60	1.06	.90	.80
601-1200	10-927	C-90	1.45	1.25	1.08

CROSS REFERENCE TABLE FOR MAGNETIC TAPE

T.M. 900 Series

Size	R/S	3M	BASF	TDK	MEMOREX	CAPITOL
C-30	44-901	.....	SK	D-C30	.....	.....
C-60	44-902	H-C-60	SK	D-C60	.....	.....
C-90	44-903	H-C-90	SK	D-C90	.....	.....
C-120	44-904	H-C-120	SK	.....	.....	.....

T.M. 920 Series

Size	R/S	3M	BASF	TDK	MEMOREX	CAPITOL
C-45	44-925	S-C-45	.....	.....	MRXII	II
C-60	44-926	S-C-60	LH	ED	MRXII	II
C-90	44-927	S-C-90	LH	ED	MRXII	II

MAGNETIC TAPE ERASER



Model 30-140. This bulk eraser is for reels, cassettes, cartridges and video tapes. Use as a table or hand-held model. Completely erases all recordings and background noise, everything that is on the tape. Restores the tape to its original, new condition. Easy to use, you don't need to wait long for a clean tape, erases in seconds. Completely safe—UL and CSA approved. 117 VAC. Shipping wt. 2 lbs. 4 oz.

797-0400 1-5 ..... Each 16.10 6-Up ..... Each 13.15

DELUXE ¼" TAPE SPLICER



Model 30-106. Tape splicer with built-in splicing tape dispenser simplifies operation. For professional repairing and editing. Splicer cuts recording tape diagonally and trims splicing with indented cut to eliminate the danger of adhesive coming in contact with the recorder heads. 100′ roll of splicing tape included. Shipping wt. 6½ oz.

797-0200 1-5 ..... Each 9.35 6-Up ..... Each 5.65

HEAD DEMAG



Model 30-112-2. Demagnetizes player heads quickly and easily. Extra long tip will reach into tape cartridges for auto and home, 4- and 8-track players, easily demagnetizing tape player head, preserving full frequency response. Demagnetizer tip is coated with soft plastic to prevent damaging player head. With momentary push-button switch and 6′ cord. 117 VAC. Nothing to wear out; will last a lifetime. Wt. 11 oz.

797-0300 1-5 ..... Each 12.55 6-Up ..... Each 9.30



CASSETTE HEAD CLEANER KIT

Model 30-618. The professional way to "dry clean" heads in cassette recorders. Will safely remove all deposits on heads, guides, etc., and restores original sound quality. Exclusive Audiotex process uses special cloth belt, impregnated with scientifically formulated solvent. Non-abrasive, completely safe. Just apply a few drops of liquid to belt in cassette, play—and your recorder will sound like new. Cleaning cassette comes in storage box with fluid and dropper applicator. Shipping wt. 3½ oz.

797-0500 1-5 ..... Each 2.70 6-Up ..... Each 2.04



TAPE PLAYER CARE KIT

Model 30-636. For cassette, cartridge, reel and video tape equipment. With regular use, kit will restore and maintain tone fidelity. Extends life of recorders and tapes by reducing friction. Kit contains one bottle each of cleaner and head lubricant, two 6″ long brushes that will reach hard-to-get places, such as recessed heads in cartridge players and 10 plastic pouches to protect tape reels, cassettes, or cartridges. Wt. 11½ oz.

797-0600 1-5 ..... Each 3.57 6-Up ..... Each 2.65

AUDIO-VIDEO TAPE HEAD CLEANER



Model 10-620. Safe for all types of recording heads. Quickly removes dirt and oxide build-up; won't harm tape, tape coating or paint finish. Will not interfere with transmission. May be used on running tape. Use in the home or in the car. So simple to use, it makes cleaning recording heads a snap. 16 oz. aerosol. Shipping wt. 1 lb. 4 oz.

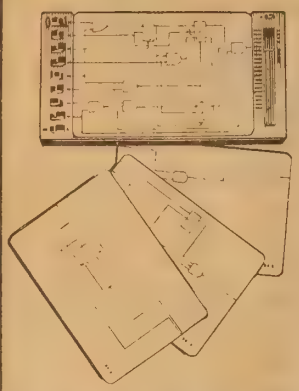
796-3600 1-11 ..... Each 4.02
12-Up ..... Each 2.90

CB, Telephone Accessories and Logic Trainer

NEW!

MODEL 100 LOGIC TRAINER

• Trains Students With No Previous Electronics Experience



Trains students without previous electronic background for digital electronics related assignments. Improves performance of technicians, designers, engineers, scientists, etc. Includes all Gates — AND, NAND, OR, NOR, EXCLUSIVE OR; Flip-Flops: D, JK, T, RS and ONE SHOT; Positive and negative edge triggered devices; Master-Slave Clocking; Preset and Clear Functions with logic "1" and "0" being active; Switch Circuits; Venn diagrams; Binary Counting. Extremely practical — problems are related to computers, communications, etc. Solving the problem requires the same thought process used in fixing a circuit malfunction. In operation, the student manipulates component logic states using the 8 logic switches on the trainer. Solving a problem requires logic switch manipulation to force a logic "1" at the problem card output which will turn on the designated bar indicator. Includes program cards, manual, LCD display, switches. 9V battery operated. Size, $9^{3}/_{16}$x$4^{3}/_{4}$x$1^{9}/_{16}$". Requires no wire or IC manipulation. Self contained.

516-1000. GSA Listed ..... **Each 69.95**



REALISTIC® "PROFESSIONAL" CB WALKIE-TALKIE

• 40-Channels, Controlled Carrier, 12 Watts, P.E.P.
• Optional Extra Push-to-Talk Mike is Available
• Carrying Case is Included

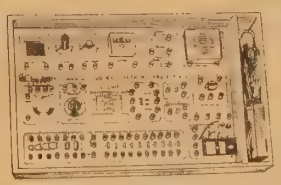
TRC-205. This high-power FCC accepted walkie-talkie is for the serious user who requires "pro" features, range and reliability. PLL synthesizer for precise control on all 40 channels — no crystals to buy. Optional push-to-talk mike plugs into walkie-talkie. Delta fine-tuning, Hi-Lo power switch, RF/S/battery meter, squelch, separate speaker and electret condenser mike, center-loaded antenna. Jacks for external antenna and mike. DC power, charger, earphone. With 8 "AA" batteries or use 10 rechargeable batteries. 10½×3¼×2¾".

910-4512. 21-1634 ..... **Ea. 169.95**

Push-to-Talk Mike for above.

910-4514. 21-1172 ..... **Ea. 12.95**

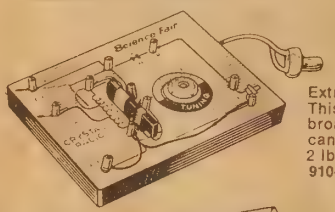
THE BEST IN ELECTRONIC PROJECTS & KITS



ELECTRONIC LAB KIT

150-In-1 Project Kit. Build radios, amplifiers, computer circuits — even has plans for strobe light, lie detectors, Cds photometer. Integrated circuit section. 214 p. instruction and theory manual. Needs no tools or soldering. In case. Requires one 9 V. battery and 2 "AA".

910-7085. Type 28-248 ..... **Each 29.95**
910-5112. 23-484, 9 V. Battery .... **Each .59**
910-5129. 23-468. "AA" Batt. ..... **Each .19**



CRYSTAL RADIO KIT

Extra-easy to assemble and really low priced! This kit comes complete. Hear your favorite AM broadcasts. Runs on special precision crystal; can't wear out—no tubes or batteries. Shpg. wt. 2 lbs.

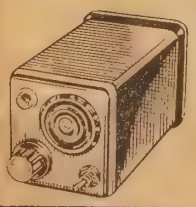
910-5507. Type 28-207 ..... **Each 4.95**



SCIENCE FAIR® SOLAR ENERGY PROJECT KIT

Ideal for beginners and hobbyists to learn about solar energy. 25 possible projects including sun-powered radios, transmitters, relays, light beam communicator and sound synthesizer. Kit includes 2 solar panels, transistors, antenna coil — 22 separate components — fitted in a 15 · 10 · 2" case. "Breadboard" construction for easy assembly. Safe and solderless connections. With an easy-to-follow manual and schematics. Some projects require one 9V and 2 "AA" cells (not included).

910-5545. Type 28-246 ..... 14.95

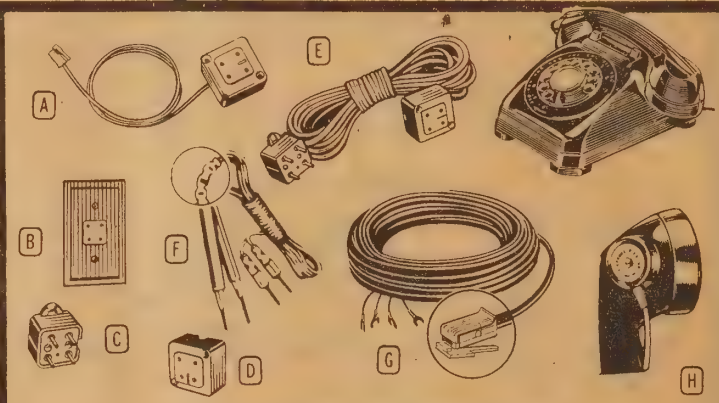


MICRONTA® "ROAD PATROL" RADAR DETECTOR

USE MAY BE REGULATED BY STATE LAW

"Road Patrol" increases driver awareness and helps control auto speed. Has an extended detection range to allow for reaction time. Solid-state, integrated circuitry utilizes a high-gain antenna for top performance. Warning system consists of visual red light and audio speaker, emitting high-pitched warning. Powered by car's 12V electrical system — complete with adapter plug for cigarette lighter or fuse box (hardware included). Mounts to dash, windshield molding or windshield. For all 12VDC negative ground vehicles.

910-4665. 22-1600 ..... 69.95



TELEPHONE ACCESSORIES

Ⓐ **Type 279-365. Modular Adapter.** Converts old-style 4-prong plug to take new modular-type plugs. **910-7035** ..... **Each 4.95**

Ⓑ **Type 279-1507. Phone Wall Jack.** Fits standard wall conduit box. 2, 3, 4-wire system. Wt. 4 oz. **910-7080** ..... **Each 2.59**

Ⓒ **Type 279-366. Phone Plug.** 4-conductor plug fits jack 279-367. Wt. ¼ lb. **910-7036** ..... **Each 1.29**

Ⓓ **Type 279-367. Phone Jack.** Easy hook-up. Matches plug above. Wt. ½ lb. **910-7037** ..... **Each 1.49**

Ⓔ **Type 279-1261. 30-Ft. Extension Cord.** 4-wire plug, standard jack. Each hook-up. Wt. 1¼ lb. **910-7065** ..... **Each 3.99**

Ⓕ **Type 278-740. Set of Test Leads.** Set of "Flexiprobe" test leads have molded strain relief on probes to reduce chance of wire breakage. 60" long. Wt. 4 oz. **910-6974** ..... **Each 2.19**

Ⓖ **Type 279-364. 25' Cord with Modular Plug.** For extension or converter/extension use with 279-367 jack (see above). Spade lugs on other end. **910-7034** ..... **Each 8.95**

Ⓗ **Type 44-533. Telephone Pickup Coil.** Record phone calls without wiring. Attaches to amplifier to drive speaker. Suction-cup mounting. Wt. ½ lb. **910-0104** ..... **Each 1.79**



INTRUSION ALARM

NEW!

• Transmits Up To 20 Feet
• False Alarm Protected

Model CA3. This security alarm creates and transmits an ultrasonic wavelength field for detection up to a distance of 20 feet. Virtually any movement activates the built-in horn and the remote outlet for two minutes, after which a new intrusion will activate the system again. Special circuitry guards against false alarms from line transients and insects. Walnut grain finish. Can be used with indoor or outdoor devices.

854-6395 ..... **Each 152.96**



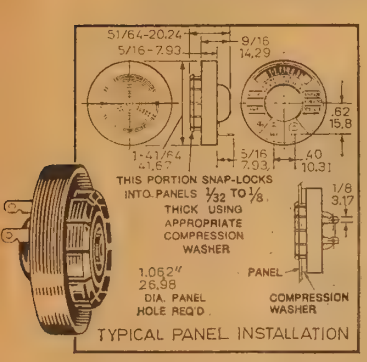
CB NOISE SUPPRESSION FILTER PACK

EMI-3. No longer will you have to be embarrassed by vehicle generated noise. This pack will provide complete coverage of this problem and other engine noise. Will stop objectionable engine interference in 90% of installations of CB or Autosound equipment. Includes ignition coil primary filter, power line conditioner and alternator whine suppressor. Complete instructions.

503-1000. ..... **Each 39.95**

Warning Devices, Whoopers, Alarms, Window Foil

SNAP-IN ELECTRONIC AUDIBLE SIGNAL

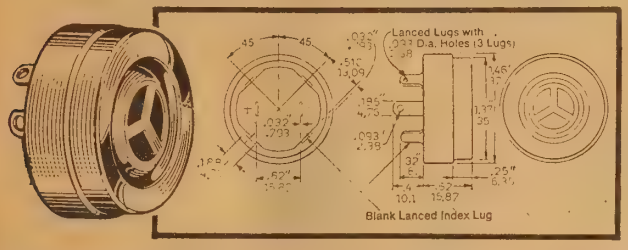


- **Snap-In Design for Easy Installation**
- **Three Compression Washer Sizes for Different Panel Thickness**

This Snap-In Electronic Audible Signal is compact, lightweight and easy to install. Simply, insert directly into a 1 1/16" panel hole, made with a standard chassis punch, hook it up, and the signal is ready to sound off. There are no moving parts, no arcing, no RF noise and no mechanical wear. Three foam compression washer sizes allow for .125-.109" (PW1), .093-.056" (PW2), or .050-.031" (PW3) panel thicknesses. Minimum 100 hours continuous at 65°C at maximum voltage, or 1 minute on, 5 minutes off minimum 1000 times. Brass terminals, hot tin finish, accept 1/8" quick connect. 4-28 VDC, 64-84 db at 2 feet. Tone frequency 2900 Hz (±500 Hz). Wt. .39 oz., 11 gms.

Stock No.	Mfr's Type	Washer Sizes Panel Thickness	EACH 1-9	10-24	25-49	50-Up
854-6565	SNP428	.....	9.05	5.75	5.67	5.41
854-6566	PW1	.125-.109"	.05	.03	....	....
854-6567	PW2	.093-.056"	.08	.05	....	....
854-6568	PW3	.053-.031"	.10	.07	....	....

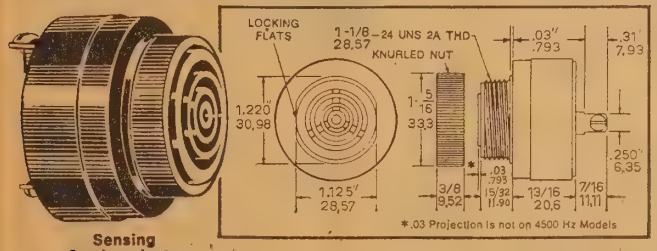
MINI-SONALERT ELECTRONIC AUDIBLE SIGNAL



Extremely compact electronic signal produces penetrating sound by purely electronic means—no moving parts. Circuitry solid-state for peak efficiency; lowest current requirements; highest reliability. No arcing; no RF noise; no mechanical wear. Lightweight units consume less current than normal indicator light, can be used to complement visual signals. Positive audible warnings instantly given in fault alarms for computers, fire signals, instruments, medical electronics and communications equipment, appliances, telephone signals and various protective equipment. Temp. range: —30° to +65°C. Frequency: 3500 Hz (±500 Hz). Polarized design. Size: 1.46" dia. x .62" long. Easily mounts on chassis or panel using either a metal or bakelite mounting wafer.

Stock No.	Mfr's Type	Nominal Operating Voltage	Operating Voltage Range	Max. Current @ Nom. V	Min. Sound Output	EACH 1-9	10-24	25-49	50-Up
854R6540	SC1.5	1.5V	1-4V	4mA	60 dB	9.05	5.75	5.67	5.41
854-6545	SC6	6V	4-8V	12mA	70 dB	10.15	5.75	5.67	5.41
854R6550	SC12	12.0V	8-15V	14mA	70 dB	9.05	5.75	5.67	5.41

MINIATURE SONALERT SOLID-STATE AUDIBLE WARNING DEVICE

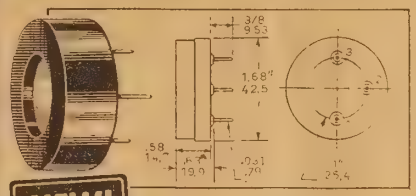


Sensing Semiconductor

Emits penetrating signal at min. current. Solid-state circuit—no arcing—no RF noise, no mechanical wear, lowest failure rate with max. efficiency. Compact, lightweight, versatile—consumes less current than normal indicator light. Ideal for use as safety device. Alerts to mechanical malfunctions in cars, communications, computers, fire signals, medical electronics, etc. Temp. range: —20° to +65°C. Self-extinguishing black nylon case, 1.687" dia. (lgth. in table). *Types that emit pulsing sound output. †Model SC628W is a warbler unit, for use with SC628 or SC628H. Wt. 8 oz.

Stock No.	Mfr's Type	Sound Freq. (Hz)	Operating Volts	Oper. Curr. (mA)	Sound Level (dB)	Lgth. In.	EACH 1-9	10-24	25-49	50-Up
854R6502	SC628	2900	6-28DC	3-14	68-80	.812	10.88	6.82	6.73	6.42
854-6506	SC628H	4500	6-28DC	3-14	68-80	.812	13.17	7.48	7.36	7.02
854R6508	SC628P	2900*	6-28DC	3-14	68-80	1.375	11.90	11.24	11.06	10.54
854-6504	SC628A	2900	6-28AC/DC	3-14	68-80	1.375	11.62	9.92	9.75	9.29
854R6500	SC110	2900	30-110AC/DC	3-14	68-80	1.375	11.62	9.92	9.75	9.29
854R6525	SC110P	2900*	30-110AC/DC	3-14	68-80	1.937	15.80	14.96	14.68	14.05
854-6530	SC628W†	2900*	6-28DC	3-14	68-80	1.375	13.18	11.24	11.06	10.54
854-6520	SC628D	1900	6-28DC	3-14	60-75	.812	13.17	9.45	7.54	7.19
854-6522	SC616NP	2900*	6-16DC	4-16	80-95	.812	11.62	9.92	9.75	9.29
854-6510	SC110H	4500	30-120AC/DC	4-16	68-80	1.375	15.20	12.96	12.75	12.16
854-6560	SC648	2900	10-48DC	3-14	68-80	.812	12.05	6.82	6.73	6.42
854-6505	SC628AP	2900*	6-28DC	4-16	68-80	1.937	17.57	14.96	14.68	14.05
854-6507	SC628HP	4500*	6-28DC	3-14	68-80	1.375	15.20	12.96	12.75	12.16
854-6516	SC616N	2900	6-16DC	4-16	80-95	.812	11.88	9.68	8.54	.....

PC BOARD MOUNTED SONALERT SIGNAL



Low profile pin mounted signal. Suited for insertion and soldering into printed circuit boards. May be hand or wave soldered. Audible signal is 2900 Hz medium loud and is available as continuous tone, fast pulse, or slow pulse. *Operating voltage.

Stock No.	Mfr's Type SBM-	* VDC	Sound Level dB	Oper. Curr. (mA)	EACH 1-9	10-24	25-49	50-Up
854-6570	2 "O"	1-5	Cont. Tone 55-68	1-10	9.23	6.75	5.76	5.41
854-6575	428 "O"	4-28	Cont. Tone 64-78	1.8-14	9.23	6.75	5.76	5.41
854-6580	616P "O"	6-16	Fast Pulse 68-78	2-10	10.75	9.92	9.75	9.29
854-6585	616PC "O"	6-16	Cont. or 68-78 Fast Pulse	2-10	11.99	11.24	11.06	10.54

8" UNDERDOME ALARM BELL

- **Ringing Can Be Heard for Blocks**
- **For Burglar and Fire Alarm Systems**
- **Operates on 6 Or 12 VDC**



Type 275-498. Ideal heavy-duty underdome bell has a variety of applications. Can be used in homes, schools, factories, boats or cars. Produces a loud, shrill ringing noise, which really gets attention and can be heard for blocks. Great for burglar or fire alarm systems. For 6 or 12 VDC—low current drain. Weatherproof. 8" dia. mounting bracket.

910-5295 ..... **Each 14.95**



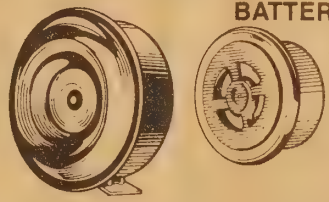
VIBRATING BELL

Model 60006. Can be used in a variety of applications, such as for signaling or for alarm systems. Six inches in diameter with a sound level of 95 decibels at 10 feet. For wiring into a 120 volt AC circuit. UL listed. 0.09 amp. Finished in decorator gray.

854-6390 ..... **Each 25.25**

4-Up ..... **Each 17.68**

BATTERY-OPERATED BUZZERS



- **Three Models to choose From, 1½-3 Volts, 6 Volts, 12 Volts**

Even though these buzzers are tiny they give off a loud warning. Connects to most alarm systems. Low current drain.

910-5225. Type 273-004. 1½-3V Model ..... **Each .99**

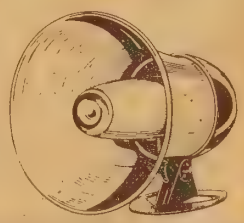
910-5240. Type 273-049. 6V Model ..... **Each 1.89**

910-5245. Type 273-051. 12V Model ..... **Each 1.89**

ELECTRONIC WHOOPER

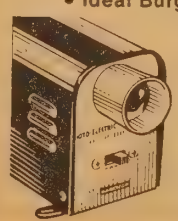
Type 275-488. Produces rousing, repetitive "yelping" or "whooping" sound that can be heard for blocks. Similar to that used in police and fire vehicles. Ideal for fire alerts, alarms in schools, businesses, and industrial plants. Can be used indoors and outdoors. It's weatherproof and waterproof. Perfect for boats, cars, homes. Attaches to swivel steel mtg. base. Mounting is quick and easy. Draws less than 750mA, 12VDC low power drain. Of spun-aluminum construction. Includes hardware and screws. Size: 6x5¼x5¼" (152.4x133.3x133.3mm).

910-5265 ..... **Each 24.95**



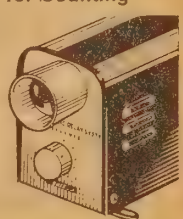
ARCHER PHOTO-ELECTRIC RELAY WARNING SYSTEM

• Ideal Burglar Alarm System • May Be Used for Counting



Type 275-489. Photo-electric relay warning system alerts you to any entry in its path. Can be used as an intrusion alarm or counter system. Photocell receiver has sensitivity control to adjust for ambient light level to eliminate counterfeit responses. Switch exciter lamp is separately housed. Has 50-foot range for many applications. Each unit is 5½x4x2⅞". Shpg. wt. 6 lbs.

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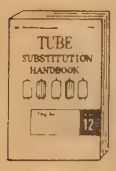
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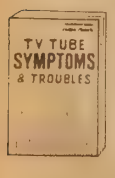
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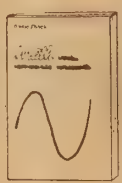
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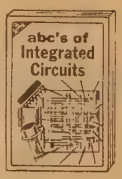
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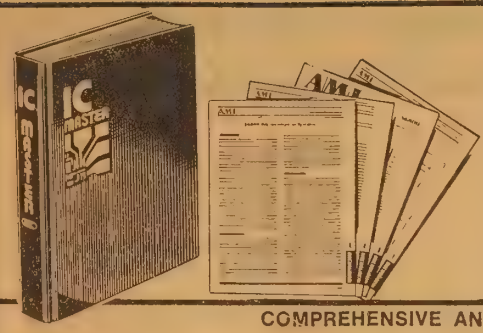


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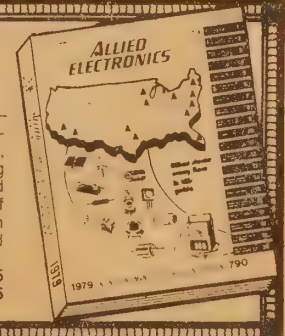
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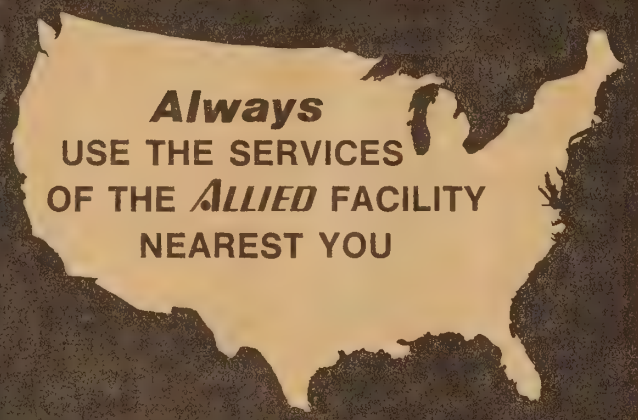
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Minimum export order is $50.00. Write Allied Electronics International Marketing Dept. at 821 Jones Street, Fort Worth, Texas 76102 U.S.A. for a complete quotation including handling, documentation and shipping.

Terms for payment on export orders are cash or irrevocable letter of credit. Cash orders in U.S. dollars will be accepted for immediate processing. Please include an extra 20% (10% on orders over $500.00) to cover handling, documentation and shipping charges. We promptly refund any excess of payment over actual charges.

Currently, Allied ships 90% of all orders complete from stock. In some cases, certain of our suppliers require a leadtime of 60 to 90 days. To ensure faster delivery to you, a divisible letter of credit for two (2) shipments is recommended to allow the first 90% to be shipped immediately. **All letters of credit must be valid for a minimum of one hundred and fifty (150) days.**

For total yearly procurement of U.S. electronic products, as on a contract basis, contact our International Marketing Group, at 821 Jones Street, Fort Worth, Texas 76102 U.S.A.

See Shipping Information on Following Page

Complete Shipping Information

CASH ORDERS

Be sure to include all transportation and insurance charges. Allied will ship your order the best way possible (see charts for Parcel Post and United Parcel Service charges). Minimum order $15.00. Any order less than $15.00 will have a $1.50 handling charge added to the total price. No Back Orders will be made on Cash Orders. Please re-order in 30 days.

C.O.D. ORDERS

The minimum C.O.D. order is $50.00. Payment must be by cash, money order or certified check. An advance deposit of 20% of the total value is required with order. NO BACK ORDERS WILL BE MADE FOR ANY C.O.D. ORDER.

SALES TAX

Allied Electronics is required by law to collect Sales Taxes imposed by the state you live in. As rates vary from state to state, please remif the correct percentage for your locality. If you have a State Sales Tax Exemption Certificate, make sure a copy is on file with Allied if you purchase Open Account. For Cash or Credit Card orders, insert your Certificate number as provided on the Cash Order form.

CREDIT CARDS

Allied accepts both VISA/BankAmericard and MasterCharge. Be sure to sign your name and Account Number on the Order Blank in the space provided. Unsigned requests will be returned for signature before shipment can be made.

TRUCK SHIPMENTS

Truck is the most economical way to ship items weighing approximately 100 pounds or more. Shipments weighing between 50 to 99 pounds will be charged at the minimum 100 pound rate as specified by truck carriers. Consult your local agent for truck rates.

AIR FREIGHT SHIPMENTS

We will ship your order Air Freight at your expense with your instructions. Contact your local Air Freight Carrier for Air Freight charges.

INSURANCE

To protect you, we insure all shipments. Allow for insurance as follows:

SMALL PACKAGES

If Shipping Charges Are	Add for Insurance
.01 to .50	.30
.51 to 1.00	.40
1.01 to 2.50	.60
2.51 to 5.00	.80
5.01 and Up	1.00

IF SHIPPED FREIGHT OR AIR — 10% OF SHIPPING CHARGES

MERCHANDISE RETURN

Allied's prior written authorization must be issued before merchandise is returned. Detailed instructions for returning merchandise will accompany your return authorization. Return authorization is valid for 30 days only.

DAMAGED MERCHANDISE

Since the terms of sale are F.O.B. shipping point, all claims for loss and damage are to be filed against the carrier by the consignee. This does not apply to shipments via Parcel Post or U.P.S., in which case you should write to us for instructions on handling the claim.

Parcel Post and U.P.S. shipping charges are those in effect at the time of printing—they are subject to increase at any time.

HOW TO ESTIMATE U.P.S. CHARGES

WEIGHT AND SIZE LIMITS:
Maximum Weight per package, 50 POUNDS.
Maximum Weight of all packages from one shipper to one consignee in one day, 100 pounds.
Maximum Size per package, 108 INCHES IN LENGTH AND GIRTH COMBINED.
Minimum charge for a package measuring over 84 inches in length and girth combined will be equal to charge for a package weighing 25 pounds.

ANY FRACTION OF A POUND OVER THE WEIGHT SHOWN TAKES THE NEXT HIGHER RATE

Weight Not To Exceed	RATES TO Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Weight Not To Exceed	RATES TO Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
1 lb.	$.82	$.84	$.87	$.90	$.94	$.99	$1.04	26 lb.	$2.67	$3.14	$3.89	$4.70	$5.87	$7.06	$8.49
2"	.89	.93	.99	1.05	1.14	1.23	1.34	27"	2.74	3.23	4.01	4.85	6.06	7.31	8.79
3"	.97	1.02	1.11	1.20	1.34	1.47	1.64	28"	2.82	3.32	4.13	5.00	6.26	7.55	9.09
4"	1.04	1.11	1.23	1.35	1.53	1.72	1.94	29"	2.89	3.41	4.25	5.15	6.46	7.79	9.39
5"	1.11	1.20	1.35	1.50	1.73	1.96	2.23	30"	2.96	3.50	4.37	5.30	6.65	8.03	9.68
6"	1.19	1.30	1.47	1.66	1.93	2.20	2.53	31"	3.04	3.60	4.50	5.46	6.85	8.28	9.98
7"	1.26	1.39	1.59	1.81	2.12	2.45	2.83	32"	3.11	3.69	4.62	5.61	7.05	8.52	10.28
8"	1.34	1.48	1.71	1.96	2.32	2.69	3.13	33"	3.19	3.78	4.74	5.76	7.25	8.76	10.58
9"	1.41	1.57	1.83	2.11	2.52	2.93	3.43	34"	3.26	3.87	4.86	5.91	7.44	9.01	10.88
10"	1.48	1.66	1.95	2.26	2.71	3.17	3.72	35"	3.33	3.96	4.98	6.06	7.64	9.25	11.17
11"	1.56	1.76	2.08	2.42	2.91	3.42	4.02	36"	3.41	4.06	5.10	6.22	7.84	9.49	11.47
12"	1.63	1.85	2.20	2.57	3.11	3.66	4.32	37"	3.48	4.15	5.22	6.37	8.03	9.74	11.77
13"	1.71	1.94	2.32	2.72	3.31	3.90	4.62	38"	3.56	4.24	5.34	6.52	8.23	9.98	12.07
14"	1.78	2.03	2.44	2.87	3.50	4.15	4.92	39"	3.63	4.33	5.46	6.67	8.43	10.22	12.37
15"	1.85	2.12	2.56	3.02	3.70	4.39	5.21	40"	3.70	4.42	5.58	6.82	8.62	10.46	12.66
16"	1.93	2.22	2.68	3.18	3.90	4.63	5.51	41"	3.78	4.52	5.71	6.98	8.82	10.71	12.96
17"	2.00	2.31	2.80	3.33	4.09	4.88	5.81	42"	3.85	4.61	5.83	7.13	9.02	10.95	13.26
18"	2.08	2.40	2.92	3.48	4.29	5.12	6.11	43"	3.93	4.70	5.95	7.28	9.22	11.19	13.56
19"	2.15	2.49	3.04	3.63	4.49	5.36	6.41	44"	4.00	4.79	6.07	7.43	9.41	11.44	13.86
20"	2.22	2.58	3.16	3.78	4.68	5.60	6.70	45"	4.07	4.88	6.19	7.58	9.61	11.68	14.15
21"	2.30	2.68	3.29	3.94	4.88	5.85	7.00	46"	4.15	4.98	6.31	7.74	9.81	11.92	14.45
22	2.37	2.77	3.41	4.09	5.08	6.09	7.30	47"	4.22	5.07	6.43	7.89	10.00	12.17	14.75
23"	2.45	2.86	3.53	4.24	5.28	6.33	7.60	48"	4.30	5.16	6.55	8.04	10.20	12.41	15.05
24"	2.52	2.95	3.65	4.39	5.47	6.58	7.90	49"	4.37	5.25	6.67	8.19	10.40	12.65	15.35
25"	2.59	3.04	3.77	4.54	5.67	6.82	8.19	50"	4.44	5.34	6.79	8.34	10.59	12.89	15.64

We limit Parcel Post Shipments to 40 lbs. and 84 inches length plus girth (maximum measurement around widest point of package). Estimate charges from table below.

The post office charges a fraction of a pound as a full pound. For example if the total weight is 4 pounds and 1 ounce to Zone 4, postage would be for 5 pounds ($1.92)

The basis for determining Parcel Post Zones is now from mailer's Sectional Center to addressee's Sectional Center, rather than by distance.

In order to mail to the correct zone, get a new parcel post zone guide and ZIP Code information from your local postmaster.

HOW TO ESTIMATE PARCEL POST CHARGES

Not Exceeding (Pounds)	Local	Zones 1, 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
2	$1.15	$1.35	$1.39	$1.56	$1.72	$1.84	$1.98	$2.22
3	1.23	1.45	1.53	1.73	1.86	2.04	2.24	2.61
4	1.29	1.56	1.65	1.82	2.00	2.23	2.50	3.00
5	1.36	1.66	1.77	1.92	2.14	2.43	2.77	3.39
6	1.42	1.71	1.84	2.01	2.28	2.62	3.03	3.78
7	1.47	1.76	1.90	2.11	2.41	2.82	3.29	4.17
8	1.51	1.80	1.97	2.20	2.55	3.02	3.56	4.56
9	1.54	1.85	2.03	2.29	2.69	3.21	3.82	4.95
10	1.57	1.89	2.10	2.39	2.83	3.41	4.08	5.34
11	1.60	1.94	2.17	2.50	3.00	3.65	4.42	5.73
12	1.64	1.98	2.22	2.56	3.09	3.77	4.57	6.12
13	1.67	2.02	2.27	2.63	3.17	3.89	4.72	6.41
14	1.70	2.05	2.32	2.69	3.25	3.99	4.86	6.62
15	1.73	2.09	2.36	2.74	3.33	4.09	4.99	6.80
16	1.76	2.13	2.41	2.80	3.40	4.19	5.11	6.98
17	1.79	2.16	2.45	2.85	3.47	4.28	5.23	7.15
18	1.82	2.20	2.49	2.91	3.54	4.37	5.34	7.31
19	1.86	2.23	2.53	2.96	3.61	4.46	5.45	7.47
20	1.89	2.27	2.58	3.01	3.67	4.54	5.55	7.62
21	1.92	2.30	2.62	3.06	3.74	4.62	5.66	7.76
22	1.95	2.34	2.66	3.14	3.85	4.78	5.80	7.90
23	1.98	2.37	2.72	3.25	3.99	4.96	6.02	8.03
24	2.01	2.44	2.80	3.35	4.12	5.13	6.24	8.16
25	2.04	2.51	2.89	3.46	4.26	5.31	6.46	8.28
26	2.07	2.58	2.97	3.56	4.39	5.48	6.68	8.40
27	2.11	2.65	3.06	3.67	4.53	5.66	6.90	8.52
28	2.14	2.72	3.14	3.77	4.66	5.83	7.12	8.63
29	2.17	2.79	3.23	3.88	4.80	6.01	7.34	8.75
30	2.20	2.86	3.31	3.98	4.93	6.18	7.56	8.85
31	2.68	3.09	3.46	4.09	5.07	6.36	7.78	9.41
32	2.71	3.12	3.49	4.19	5.20	6.53	8.00	9.51
33	2.74	3.16	3.57	4.30	5.34	6.71	8.22	9.61
34	2.77	3.19	3.65	4.40	5.47	6.88	8.44	9.80
35	2.80	3.22	3.74	4.51	5.61	7.06	8.66	10.06
36	2.83	3.28	3.82	4.61	5.74	7.23	8.89	10.32
37	2.86	3.35	3.91	4.72	5.88	7.41	9.10	10.58
38	2.89	3.42	3.99	4.82	6.01	7.58	9.32	10.84
39	2.93	3.49	4.08	4.93	6.15	7.76	9.54	11.10
40	2.96	3.56	4.16	5.03	6.28	7.93	9.76	11.36

Over 40 lbs. shipped truck.

HOW TO ESTIMATE PRIORITY MAIL CHARGES (HEAVY PIECES)

We will ship your order by Priority Mail on your instructions. Size and weight limitations are 70 pounds and 100 inches (length plus girth). Handling is similar to First Class Mail.

Wt., Lbs.	Zones 1, 2, 3,	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	APO's and FPO's
To 1	$1.71	$1.81	$1.88	$1.97	$2.06	$2.25	
1-1½	1.86	1.96	2.07	2.21	2.34	2.50	APO & FPO San Francisco ZONE RATES from Warehouse Shipping Your Order Apply.
1½-2	1.99	2.12	2.27	2.44	2.61	2.83	
2-2½	2.11	2.27	2.46	2.68	2.89	3.16	
2½-3	2.23	2.42	2.65	2.91	3.17	3.50	
3-3½	2.35	2.58	2.84	3.15	3.45	3.83	
3½-4	2.47	2.73	3.03	3.38	3.73	4.16	APO & FPO New York ZONE RATES from Warehouse Shipping Your Order Apply.
4-4½	2.59	2.89	3.22	3.62	4.01	4.50	
4½-5	2.72	3.04	3.42	3.85	4.29	4.83	
10	3.93	4.58	5.33	6.20	7.07	8.16	
20	6.36	7.66	9.16	10.90	12.64	14.82	
30	8.79	10.74	12.99	15.60	18.21	21.48	

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FLORIDA 33063
101 North State Road 7
Suite 111
305/973-3070

ELGIN
ILLINOIS 60120
1355 McLean Boulevard
312/697-8200

LANDOVER
MARYLAND 20785
3705 West St.
301/773-5050

WILMINGTON
MASSACHUSETTS 01887
845 Woburn St.
617/942-0150

MINEOLA
NEW YORK 11501
100 East Old Country Rd.
Office 20
516/248-2360

RALEIGH
NORTH CAROLINA 27605
400 Woodburn Rd.
Suite 200
919/821-0415

WILLOUGHBY
OHIO 44094
35104 Euclid Ave.
216/951-0908

FORT WORTH
TEXAS 76102
401 East 8th St.
817/336-5401

HOUSTON
TEXAS 77024
8707 Katy Freeway
Suite 106
713/932-7321

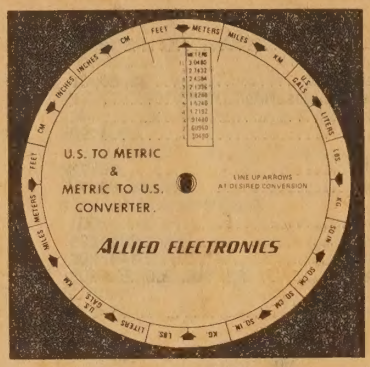
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WISCONSIN 53218
6114 West Capitol Dr.
414/463-2662

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ALLIED ELECTRONICS

U.S. to Metric and Metric to U.S. Conversions

Allied has a convenient and handy metric conversion wheel on page 131, which converts any U.S. linear, area, weight, liquid or volume into metric equivalents (or vice versa).



METRIC CONVERSION WHEEL

678R6670. 1-24 ..... Ea. 1.50
25-49 ..... Ea. 1.25 50-Up .... Ea. 1.00

CONVERSION FACTORS

Multiply	By	To Obtain
Centimeters	.3937	Inches
Centimeters	.0328	Feet
Feet	30.4801	Centimeters
Feet	.3048	Meters
Gallons, U.S.	3.7853	Liters
Grams	.0353	Ounces
Grams	.0022	Pounds
Grams	.0010	Kilograms
Inches	2.5400	Centimeters
Kilograms	2.2046	Pounds
Kilograms	35.2740	Ounces
Meters	39.3700	Inches
Meters	3.2808	Feet
Meters	1.0936	Yards
Ounces	28.3495	Grams
Pounds	453.5924	Grams
Pounds	.4536	Kilograms

Decimal and Metric Equivalent of Fractions

Fraction	Inch	(mm)	Fraction	Inch	(mm)
1/64	.015625	(.39688)	33/64	.5156	(13.09688)
1/32	.03125	(.79375)	17/32	.5312	(13.49375)
3/64	.046875	(1.19063)	35/64	.5468	(13.89063)
1/16	.0625	(1.58750)	9/16	.5625	(14.28750)
5/64	.078125	(1.98438)	37/64	.5781	(14.68438)
3/32	.09375	(2.38125)	19/32	.5937	(15.08125)
7/64	.109375	(2.77813)	39/64	.6093	(15.47813)
1/8	.125	(3.17500)	5/8	.625	(15.87500)
9/64	.140625	(3.57188)	41/64	.6406	(16.27188)
5/32	.15625	(3.9687)	21/32	.6562	(16.66875)
11/64	.171875	(4.36563)	43/64	.6718	(17.06563)
3/16	.1875	(4.76250)	11/16	.6875	(17.46250)
13/64	.203125	(5.15938)	45/64	.7031	(17.85938)
7/32	.21875	(5.55625)	23/32	.7187	(18.25625)
15/64	.234375	(5.95313)	47/64	.7343	(18.65313)
1/4	.250	(6.35000)	3/4	.750	(19.0500)
17/64	.2656	(6.74688)	49/64	.7656	(19.44688)
9/32	.2812	(7.14375)	25/32	.7812	(19.84375)
19/64	.2968	(7.54063)	51/64	.7968	(20.24063)
5/16	.3125	(7.93750)	13/16	.8125	(20.63750)
21/64	.3281	(8.33438)	53/64	.8281	(21.03438)
11/32	.3437	(8.73125)	27/32	.8437	(21.43125)
23/64	.3593	(9.12813)	55/64	.8593	(21.8281)
3/8	.375	(9.52500)	7/8	.875	(22.22500)
25/64	.3906	(9.92188)	57/64	.8906	(22.62188)
13/32	.4062	(10.31875)	29/32	.9062	(23.01875)
27/64	.4218	(10.71563)	59/64	.9218	(23.41563)
7/16	.4375	(11.11250)	15/16	.9375	(23.81250)
29/64	.4531	(11.50938)	61/64	.9531	(24.2093)
15/32	.4687	(11.90625)	31/32	.9687	(24.60625)
31/64	.4843	(12.30313)	63/64	.9843	(25.00313)
1/2	.500	(12.70000)	1.	1.0000	(25.40000)

Temperature Conversion Table

Degrees: Celsius (Centigrade)

°C	°F	°C	°F	°C	°F	°C	°F
−100	−148	+ 60	+140	+220	+428	+380	+716
− 95	−139	+ 65	+149	+225	+437	+385	+725
− 90	−130	+ 70	+158	+230	+446	+390	+734
− 85	−121	+ 75	+167	+235	+455	+395	+743
− 80	−112	+ 80	+176	+240	+464	+400	+752
− 75	−103	+ 85	+185	+245	+473	+405	+761
− 70	− 94	+ 90	+194	+250	+482	+410	+770
− 65	− 85	+ 95	+203	+255	+491	+415	+779
− 60	− 76	+100	+212	+260	+500	+420	+788
− 55	− 67	+105	+221	+265	+509	+425	+797
− 50	− 58	+110	+230	+270	+518	+430	+806
− 45	− 49	+115	+239	+275	+527	+435	+815
− 40	− 40	+120	+248	+280	+536	+440	+824
− 35	− 31	+125	+257	+285	+545	+445	+833
− 30	− 22	+130	+266	+290	+554	+450	+842
− 25	− 13	+135	+275	+295	+563	+455	+851
− 20	− 4	+140	+284	+300	+572	+460	+860
− 15	+ 5	+145	+293	+305	+581	+465	+869
− 10	+ 14	+150	+302	+310	+590	+470	+878
− 5	+ 23	+155	+311	+315	+599	+475	+887
0	+ 32	+160	+320	+320	+608	+480	+896
+ 5	+ 41	+165	+329	+325	+617	+485	+905
+ 10	+ 50	+170	+338	+330	+626	+490	+914
+ 15	+ 59	+175	+347	+335	+635	+495	+923
+ 20	+ 68	+180	+356	+340	+644	+500	+932
+ 25	+ 77	+185	+365	+345	+653	+505	+941
+ 30	+ 86	+190	+374	+350	+662	+510	+950
+ 35	+ 95	+195	+383	+355	+671	+515	+959
+ 40	+104	+200	+392	+360	+680	+520	+968
+ 45	+113	+205	+401	+365	+689	+525	+977
+ 50	+122	+210	+410	+370	+698	+530	+986
+ 55	+131	+215	+419	+375	+707	+535	+995

Conversion Table

The conversion table, below, provides an easy reference for converting millimeters to inches and inches to millimeters. For example, to convert 43 mm into inches locate 40 in the far left column, then across till you are in the column headed 3, 1.6929 inches equals 43 mm. To determine inches to millimeters do the opposite from the above instructions.

Millimeters to Inches

Milli-meters	0	1	2	3	4	5	6	7	8	9
	Inches									
0	.0000	.0394	.0787	.1181	.1575	.1969	.2362	.2756	.3150	.3543
10	.3937	.4331	.4724	.5118	.5512	.5906	.6299	.6693	.7087	.7480
20	.7874	.8268	.8661	.9055	.9449	.9843	1.0236	1.0630	1.1024	1.1417
30	1.1811	1.2205	1.2598	1.2992	1.3386	1.3780	1.4173	1.4567	1.4961	1.5354
40	1.5748	1.6142	1.6535	1.6929	1.7323	1.7717	1.8110	1.8504	1.8898	1.9291
50	1.9685	2.0079	2.0472	2.0866	2.1260	2.1654	2.2047	2.2441	2.2835	2.3228
60	2.3622	2.4016	2.4409	2.4803	2.5197	2.5591	2.5984	2.6378	2.6772	2.7165
70	2.7559	2.7953	2.8346	2.8740	2.9133	2.9528	2.9921	3.0315	3.0709	3.1102
80	3.1496	3.1890	3.2283	3.2677	3.3071	3.3465	3.3858	3.4252	3.4646	3.5039
90	3.5433	3.5827	3.6220	3.6614	3.7008	3.7402	3.7795	3.8189	3.8583	3.8976
100	3.9370	3.9764	4.0157	4.0551	4.0945	4.1339	4.1732	4.2126	4.2520	4.2913
110	4.3307	4.3701	4.4094	4.4489	4.4882	4.5276	4.5669	4.6063	4.6457	4.6850
120	4.7244	4.7638	4.8031	4.8425	4.8819	4.9212	4.9606	5.0000	5.0394	5.0787
130	5.1181	5.1575	5.1969	5.2362	5.2756	5.3150	5.3543	5.3937	5.4331	5.4724
140	5.5118	5.5512	5.5906	5.6299	5.6693	5.7087	5.7480	5.7874	5.8268	5.8661
150	5.9055	5.9449	5.9843	6.0236	6.0630	6.1024	6.1417	6.1811	6.2205	6.2598

"How to Order" and Shipping Information on Pages 250 and 251

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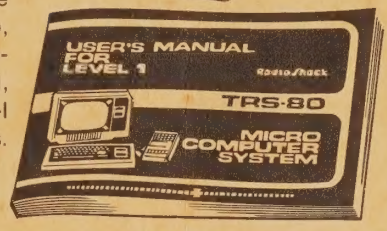
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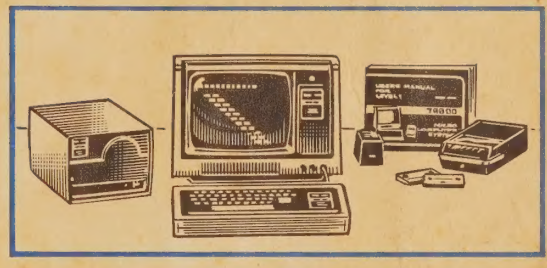
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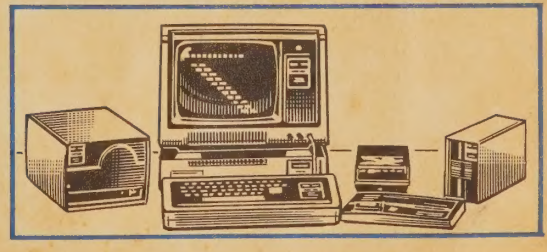
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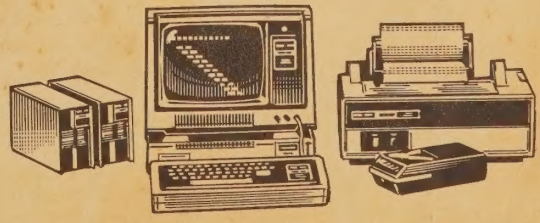
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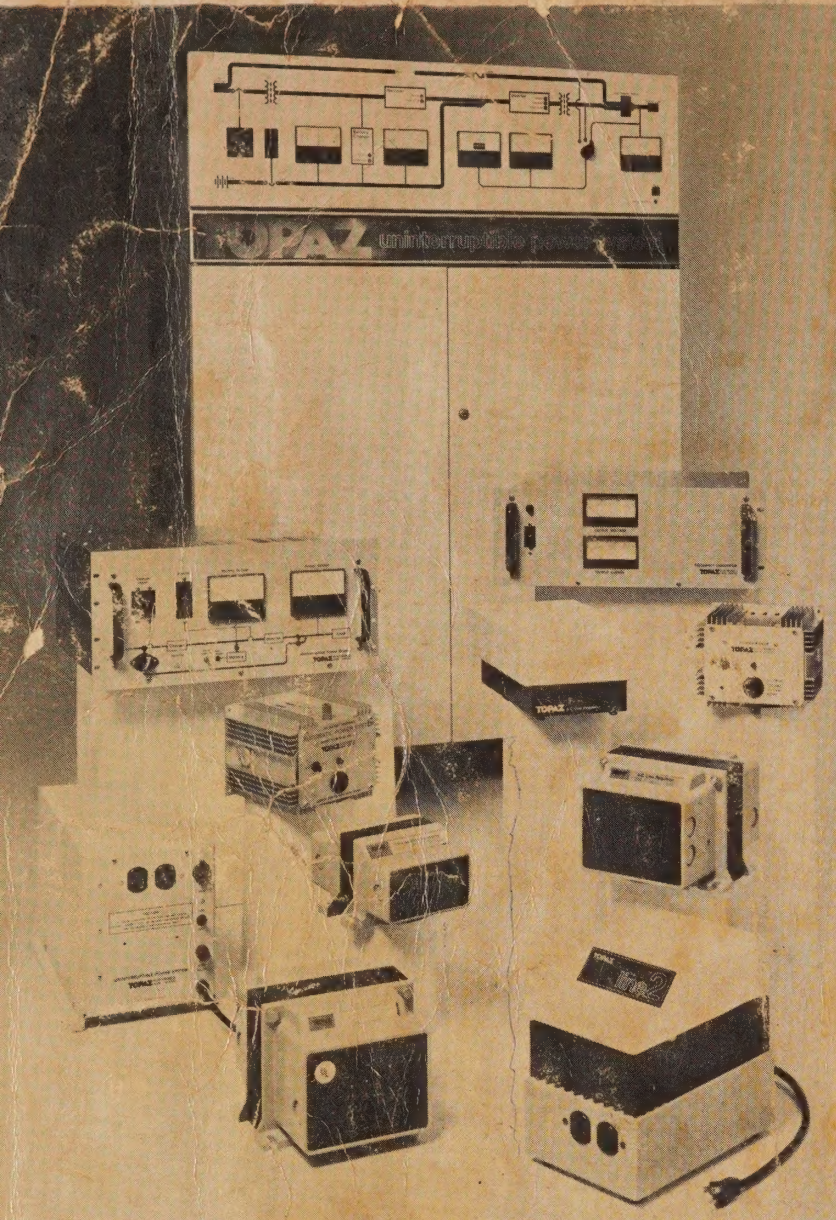


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See Page 3 For More TRS-80™ Products and Technical Specifications



AC power is out-of-spec 128 times every month

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